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CLASSIFICATION OF AMERICAN CITIES FOR CASE STUDY ANALYSIS

VOLUME III

Documentation of Data Used in Factor Analysis and City Classification

By

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Contract #68-01-3299

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The methodology begins with a data base on standard metropolitan statistical areas, SMSAs, including variables related to environmental quality, urban form, and household, industrial, and government activity. It analyses these variables through a two-stage factor analysis technique which allows heuristic consideration of the significant characteristics. Finally, it develops city clusters which group areas with similar attributes. Modal (or representative) cities are selected for each group and suggested as case study sites. These groups may be used to generalise the study results and to analyse the transferrability of results between areas. The methodology is sufficiently flexible to consider a wide range of research hypotheses.

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Economic Factors	Socioeconomic Stans	Factor Analysis	08F
Economic Surveys	Urban Areas	City Classification	13B
Economic Geography	Urban Sociology	Modal Cities	
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ABSTRACT

Attempts to analyze and evaluate the impacts of federal programs has led to the extensive use of case studies of program impacts at selected sites. This project has developed a methodology for the systematic selection of representative case study sites and for generalizing the study results. The methodology, involving two stage factor analysis and clustering, is applied to a specific program/policy problem, the selection of metropolitan areas for case studies in analyzing the impact of federal policies on general environmental quality.

The methodology begins with a data base on standard metropolitan statistical areas, SMSAs, including variables related to environmental quality, urban form, and household, industrial, and government activity. It analyzes these variables through a two-stage factor analysis technique which allows heuristic consideration of the significant characteristics. Finally, it develops city clusters which group areas with similar attributes. Modal (or representative) cities are selected for each group and suggested as case study sites. These groups may be used to generalize the study results and to analyze the transferrability of results between areas. The methodology is sufficiently flexible to consider a wide range of research hypotheses.

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VOLUME III

DATA BASE

1.0 INTRODUCTION

This volume includes a complete description and commentary on the data utilized in this research and additional data sources. Chapter 2 reports on each variable included in the analysis as follows:

- SCS (significant characteristic set)
- type of variable: sub-groups of variables within the SCS reflect the hypotheses on which the research is based.
- variable name
- units by which the variable is measured
- data source
- personal contact available to answer questions about the data
- code name used for the variable
- mathematical transformations performed to derive the variable from raw data
- number of SMSAs for which data was available
- time at which measurements were taken
- comment on the data set including special considerations to be applied to each variable.

Two appendixes follow which provide a statistical summary of the data (Appendix A) and a complete listing of data values (Appendix B).

2.0 DATA DOCUMENTATION

1. Ambient Environmental Quality

A. Ambient Water Quality

1. Biochemical Oxygen Demand (5-day, 20°C)

Source: STORET data bank (EPA)
Contact: Lou Gitto, Region I, EPA (617-223-5885)
Code (units): BOD (mg/l)
Transformations: none
Number of SMSAs included: 231
Time of Observation: 1970-1975

Comment: Data is retrieved from STORET by identifying geographic areas (in terms of latitudes and longitudes) for which data is desired. As descriptions of SMSA boundaries by latitudes and longitudes were not available, project resources were used to develop this extensive intermediate data set. Descriptions of SMSAs by counties and/or towns (provided by the U.S. Office of Management and Budget) were used in conjunction with index maps for U.S.G.S. topographical maps (U.S. Geological Survey) to tabulate SMSA boundaries. U.S.G.S. index maps indicate towns, county lines and latitude-longitude grids.

The traverse identified as surrounding each SMSA is necessarily approximate even though as many as eleven points are used to describe a given SMSA boundary. As a result, observations within SMSAs may be excluded in some cases and measurements outside SMSAs may be included.

A more serious problem with this data set is the uneven distribution of measurements over time and space. STORET data is a collection of data from numerous sources rather than the results of a systematic sampling program. Because the motive for sampling varies, parameters measured, sampling methods and location type also vary. It is conceivable that measurements from one SMSA might be highly oriented toward recreation facilities while measurements from another SMSA were concentrated at a highly polluted river. As sampling intensity varies over time, as well, it is possible one SMSA would show the largest number of measurements in 1972 and another would have more observations in 1974, thus creating a bias toward the period of most intense sampling.

Given available measurements of BOD for a given time interval and geographic area, STORET provided an estimate of "ambient BOD" by treating all observed measurements as a single station. Although this process yields a usable number, it is obviously inaccurate in assuming the available data is representative in terms of variation over time for a given water body, over space for a given water body, and between existing water bodies.

Individual samples were restricted to values less than or equal to 500 mg/l. Although it is possible some real values might be excluded by this limit, the number of such values is insignificant. The limit was deemed necessary to minimize the effects of extreme values created by mistakes (such as decimal points misplaced) which would have an overwhelming impact on the mean of samples within the SMSA. As an example, the maximum value of BOD observed in Pittsburgh was 600,001 mg/l.

2. Fecal Coliforms, measured by membrane filter method

   Source: STORET data bank (EPA)

   Contact: Lou Gitto, see above

   Code (units): FCOL (colonies/100 ml)

   Transformations: none

   Number of SMSAs included: 213

   Time of Observation: 1970-1975.

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 10,000,000 colonies/100 ml. were rejected.

3. Total Nitrogen

   Source: STORET data bank (EPA)

   Contact: Lou Gitto, see above

   Code (units): N (mg/l as N)

   Transformations: none

   Number of SMSAs included: 172

   Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 35 mg/l were rejected.

4. Total Organic Carbon

   Source: STORET data bank (EPA)

   Contact: Lou Gitto, see above

   Code (units): C (mg/l as C)

   Transformations: none

   Number of SMSAs included: 205

   Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 200 mg/l were rejected.

5. Dissolved Solids

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): TDSS (mg/l)

Transformations: none

Number of SMSAs included: 225

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 30,000 mg/l were rejected.

6. Suspended Solids

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): TSS (mg/l)

Transformations: none

Number of SMSAs included: 220

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 30,000 mg/l were rejected.

7. Turbidity

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): TURB (Jackson Candle Units)

Transformations: none

Number of SMSAs included: 228

Time of Observation: 1970-1975

Comment: Comments above relating to STORET data and its retrieval and aggregation are relevant here. Values exceeding 40 Jackson Candle Units were rejected.

8. Alkalinity

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units) AALK (mg/l as $CaCO_3$)

Transformations: none

Number of SMSAs included: 251

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 7500 mg/l were rejected.

9. Acidity

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): PHS (standard units)

Transformations: none

Number of SMSAs included: 255

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 14 were rejected.

10. Oil and Grease, soxhlet extraction

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above)

Code (units): O&G (mg/l)

Transformations: none

Number of SMSAs included: 149

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 1500 mg/l were rejected.

11. Methylene Blue Active Substance--detergents, etc.

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): MBAS (mg/l)

Transformations: none

Number of SMSAs included: 161

Time of Observation: 1970-1975

Comment: Comments above pertaining to STORET data and its retrieval and aggregation are relevant here. Values exceeding 150 mg/l were rejected.

B. Ambient Air Quality

1. Suspended Particulates

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, Control Data Corporation, 6003 Executive Boulevard, Rockville, MD 20852 (301-770-8917)

Code (units): SUS (micro-g/cu.m.)

Transformations: none

Number of SMSAs included: 256

Time of Observation: 1975

Comment: The two air quality measures utilized--suspended particulates and sulfur dioxide--do not adequately describe ambient air quality. National Ambient Air Quality Standards have been established for five critical parameters: suspended particulates, sulfur dioxide, carbon monoxide, oxidants and nitrogen dioxide. Available data, however, is relatively complete for only the first two parameters. The proportion of SMSAs with missing data for each parameter is shown below:

Suspended Particulates: 2% of SMSAs missing
Sulfur Dioxide: missing 12% of SMFAs
Oxidants: missing 55% of SMSAs
Carbon Monoxide: missing 62% of SMSAs
Nitrogen Dioxide: very little data available.

The available data is taken to represent ambient air quality even though measurements are taken at a small number of stations at selected times. Like the wcter quality data, these tests are not necessarily representative over time and space within an SMSA.

This problem is compounded by the aggregation of raw data. Values for the present research were obtained from a SEAS data file of air quality by air quality control region (AQCR). The 247 AQCRs do not correspond to the 262 SMSAs. AQCR 43, for instance, contains the following SMSAs:

1160 Bridgeport, Connecticut
1930 Danbury, Connecticut
3640 Jersey City, New Jersey
4410 Long Branch-Asbury Park, New Jersey
5460 New Brunswick-Perth-Amboy-Sayreville, New Jersey
5600 New York, New York-New Jersuy
5640 Newark, New Jersey
5760 Norwalk, Connecticut
6040 Paterson-Clifton-Passaic, New Jersey
8040 Stamford, Connecticut

Thus, the data indicates Danbury, Connecticut, and New York City have the same air quality.

3. Sulfur Dioxide

Source: SEAS data bank (EPA)

Contact: Ralph Ubique, see above

Code (units): SO2 (micro-g/cu.m.)

Transformations: none

Number of SMSAs included: 233

Time of Observation: 1975

Comment: Remarks above pertaining to ambient air quality measures available are relevant here.

C. Subjective Measures

1. PDI Index

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Areas, 1970 (Prepared for Washington Environmental Research Center, EPA, 1975)

Contact: Robert Livingston (Project Officer), Washington Environmental Research Center (202-426-2275)

Code (units): PDI (none)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1971

Comment: The PDI Index was formulated as an indicator of pollution severity by the Office of Water Programs (EPA). MITRE Corporation computed values for the index by SMSA, by regional planning area and by STORET minor basin. PDI values by SMSA were published in Quality of Life Indicators in U.S. Metropolitan Areas, 1970. Documentation for the index is provided by J.B. Truett et al in "Development of Water Quality Management Indices," Water Resources Bulletin (vol. 11, No. 3: June 1975).

The index reflects prevalence, duration and intensity of pollution within an area.

> "Here, prevalence (P) means the number of stream miles within the planning area in which the water is not in compliance with established Federal/State Water Quality Standards or other legal criteria of water quality. Such non-compliance is considered to exist when the in-stream water quality deviates from any one of the several legal criteria. Statements of non-compliance should be verifiable by stream sampling.

The duration (D) of a pollution situation is measured in terms of the number of quarter-year periods or seasons in which it occurs. Values are assigned to these observations as follows:

0.4 for violations occurring in a single quarter.

0.6 for violations occurring in two quarters.

0.8 for violations occurring in three quarters.

1.0 for violations occurring in all four quarters.

Intensity of pollution (I) is an indicator of the severity of pollution in a zone, expressed in terms of its effects rather than of water quality parameters. It permits the evaluator to avoid the process of explicitly forming judgements concerning the seriousness of each criterion deviation and to move directly to the question of impacts on human welfare and ecology.

Values of I range from 0 to 1 and represent the simple addition of the values assigned to three component measures which classify impacts according to ecological, utilitarian, and aesthetic considerations. Ecological impacts include the effects of pollution on the existence or the potential for existence of desirable life forms, including man. Pollution effects causing reductions in the economic or resource utilization values of the water are grouped under utilitarian impacts. Lastly, pollution effects disagreeable to the senses are included in the category of aesthetics. The value scale for each of these components follows:

Ecological: Inhibiting or eliminating desirable life forms:

0.1=conditions that threaten stress on life forms (including sanitary aspects not related to any verifiable instance of contagions).

0.2=conditions that produce stress on indigenous life forms.

0.3=conditions that reduce productivity of indigenous life forms.

0.4=conditions that inhibit normal life processes or threaten elimination of indigenous life forms.

0.5=conditions that eliminate one or more indigenous life forms.

Utilitarian: Reducing the economic application of the water resource

0.1=conditions that require costs above the norm to realize legally defined (i.e., in water quality standards) uses.

0.2=conditions that intermittently inhibit realization of some desired and practical uses or necessitate use of an alternate source.

0.3=conditions which frequently or continually prevent the realization of desired and practical uses or cause physical damage to facilities.

Aesthetic: Causing effects disagreeable to the senses

0.1=visually unpleasant.

0.2=visually unpleasant with association of unpleasant tastes or odors.

It is expected that the characteristics of many pollution situations will produce a set of effects falling into more than one of these components. Thus the diminution of commercially valuable marine life would be reflected in both the ecological and utilitarian categories of effects. A pollution situation may have serious ecological impacts, but have virtually no impact on the economic or utilitarian value of the waters, because circumstances of location, climate, hydrology or other factors remove these values from consideration.

The value (V) of the PDI index for a given area is the product of the measures of prevalence, duration and intensity of pollution, divided by the total stream miles (M) within the area:

$$V = \frac{P \times D \times I}{M}$$.[*]

Truitt *et al* have discussed certain shortcomings of this index

> "The PDI index ... does not differentiate between the case where a stream reach fails to meet water quality criteria for one pollutant and the case where all pollutant criteria are violated, nor

---

[*] J.B. Truitt, A.C. Johnson, W.D. Rowe, K.D. Feigner and L.J. Manning, "Development of Water Quality Management Indices," *Water Resources Bulletin* (11:3, June 1975).

does its value reflect the extent by which a criterion is violated. Arguments can be made in support of the yes-no provisions of the present PDI formulation, or in support of a more quantitative approach that reflects the degree of violation. Certainly the index formulation could be expanded to accommodate information on the number of criteria violated, the degree of violation of each, and the relative importance of each. This was not done in the present case because of the difficulties and complexities of obtaining agreement upon the relative importance of the various pollutants covered by water quality criteria as well as the scarcity of measured data or valid estimates on the degree of violation.

Other index formulations have been developed to reflect many additional factors. R.M. Brown and his associates at the National Sanitation Foundation and the University of Michigan undertook the difficult task of determining, by means of the Delphi approach and involving a large number of experts (142) in water quality management, the most important "parameters" (pollutants or other physical or chemical conditions) to be included in an index of water quality, and of obtaining "temporary weightings" that reflect the relative importance of each parameter.* Rosenbaum** developed a series of index formulations that reflect not only the degree by which various pollutants exceed criteria, but the relative impact of criteria violations on various population categories, and the capability of various jurisdictions to meet water quality standards assuming certain political and technological constraints but no economic barriers.

In addition to the somewhat forced simplicity of the index formulations described in this paper, attention is directed to the fact that certain of the data used in evaluating the indices are in fact estimates made by experts in the Regional Offices rather than physical, chemical, or economic measurements. The numerical values of the index are used primarily for ordering the planning areas and have little significance other than for rank ordering.

---

*R.M. Brown, Nina I. McClelland, Rolf A. Deininger and Roland G. Tozer, "A Water Quality Index - Do We Dare?," *Proceedings of the National Symposium on Data and Instrumentation for Water Quality Management* (sponsored by the Conference of State Sanitary Engineers at University of Wisconsin, 1970).

**David Rosenbaum, *Water Indices*: Working Paper 7438 (McLean, Virginia: The MITRE Corp., 1971).

> If the estimates of "prevalence," "intensity," and other parameters used in evaluating the index are consistent and reasonably accurate the resulting rank ordering based on index rankings should be valid. However, users of the index values for purposes other than rank ordering should carefully consider the effects of inaccuracies of either the estimated or the measured (enumerated) data."[†]

B. Drinking Water

1. Coliforms[*]

Source: Drinking Water Data File (EPA)

Contact: Roger D. Lee, Surveillance and Technical Assistance
Branch, Water Supply Division, EPA (202-755-2484)

Code (units): COL (none)

Transformations: Figure 2-1 shows the format of data obtained from the Water Supply Division for individual water supplies serving interstate carriers.

Data is presented for individual samples from each water supply rather than for an average level of coliforms for each water supply. The use of two testing methods further complicates interpretation of the data. As the desired form for the data is a single value for each SMSA, the available data must be aggregated over time, then data from the two methods combined, and finally a single value for the SMSA must be derived from one or more water supplies.

An index was developed to encompass all of the relevant data. First, a multiple tube method index is computed for each water supply tested by that method.

$$MTI = \frac{\sum_{i=1}^{n} NS(i)POS(i)}{\sum_{i=1}^{n} NS(i)} \times \frac{1}{10}$$

where MTI = multiple tube index
n = number of tests by the multiple tube method
NS(i) = number of samples in test i
POS(i) = percent tubes positive in test i

The average percentage of positive tubes is divided by 10 to

[†] Truitt, et al., op.cit.

[*] Excluded from analysis since data reduction revealed only 111 SMSAs were included.

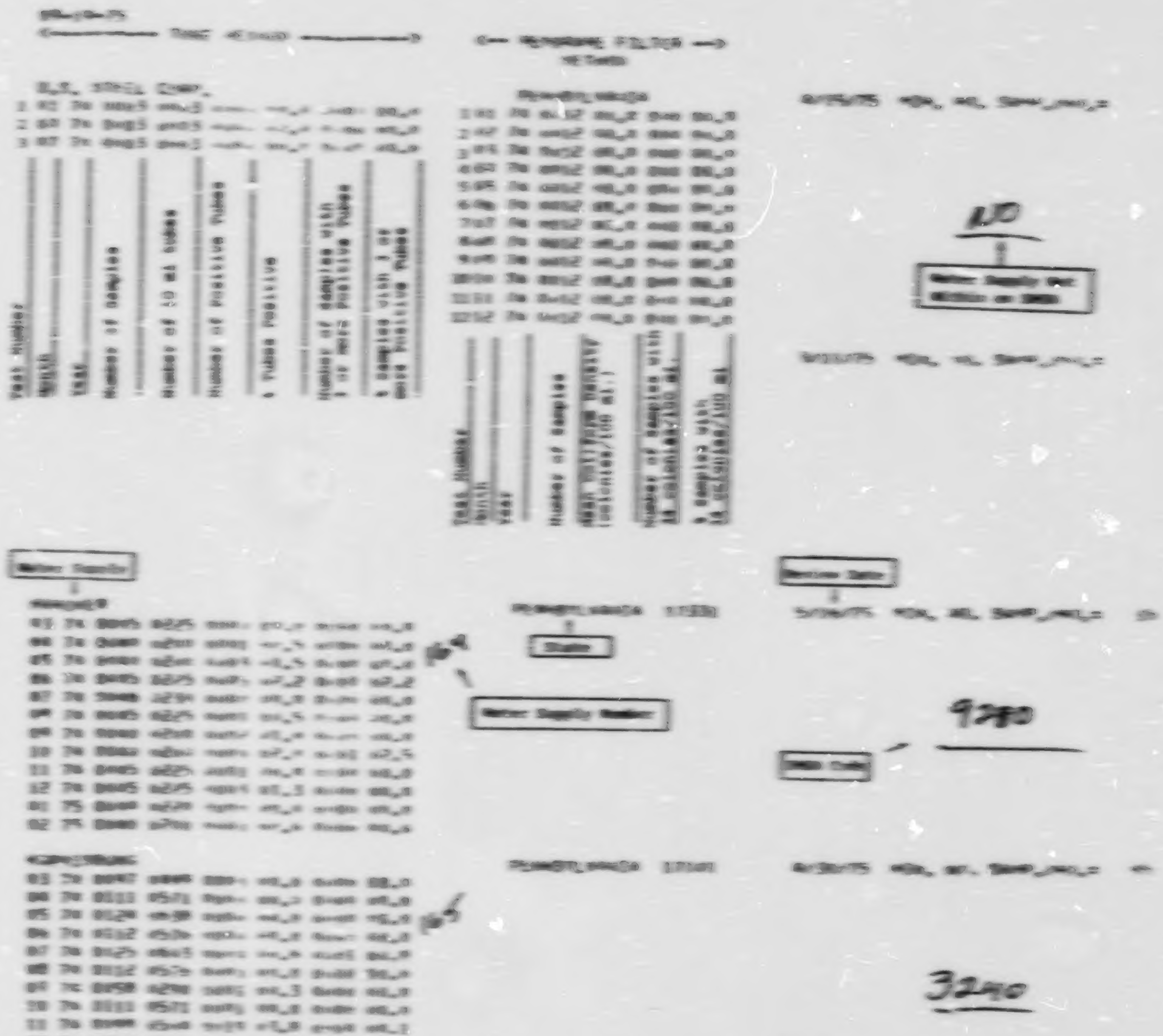
TUBE METHOD
MEMBRANE FILTER METHOD
U.S. STEEL CORP.
PENNSYLVANIA
Test Number
Month
Year
Number of Samples
Number of 10 ml tubes
Number of Positive Tubes
% Tubes Positive
Number of Samples with 1 or more Positive Tubes
% Samples with 1 or more Positive Tubes
Mean Coliform Density (colonies/100 ml.)
Number of Samples with ≥4 colonies/100 ml.
% Samples with ≥4 colonies/100 ml
110
Water Supply Unit Within an SMSA
Water Supply
Review Date
PENNSYLVANIA 11531
State
Water Supply Number
9280
SMSA Code
PENNSYLVANIA 17101
3240
10-4
10-5

Figure 2-1

Format of Coliform Data for Drinking Water Supplies yield an index which indicates the degree to which the water supply conforms to a limit of 10 percent, set as a standard for interstate carrier water supplies.

A membrane filter method index is computed for each water supply tested by that method:

$$MFI = \frac{\sum_{j=1}^{m} NS(j)MCD(j)}{\sum_{j=1}^{m} NS(j)} \times \frac{1}{1}$$

where m = number of tests by membrane filter method
MFI = membrane filter index
MCD = mean coliform density (colonies/100 ml)

The standard for this test is a limit of one coliform colony per 100 ml. The mean coliform density divided by one yields an index of conformance.

These two indices are combined in a weighted average:

$$WSI = \frac{[MTI \times n] + [MFI \times m]}{n + m}$$

where WSI = an index of coliforms for the water supply.

WSI expresses the degree to which the water supply conforms to the standard, as measured by the data. Where more than one water supply in an SMSA serves an interstate carrier, several values for WSI must be combined. A weighted average is calculated using "minimum number of samples per month" as the weighting variable. Required sampling frequency is an appropriate weight since the requirement is based on total volume of water sold. The desired index of coliform density for a given SMSA, then, is:

$$CI = \frac{\sum_{K=1}^{P} (WSI_K \times MIN_K)}{\sum_{K=1}^{P} MIN_K}$$

where CI = index of coliform in drinking water for a particular SMSA
MIN_K = required sampling frequency for water supply K (samples/month)
P = number of water supplies in the SMSA

Number of SMSAs included: 111

Time of Observation: 1974-1975

Comment: Some data for the period 1970-1973 was available but was found to be far less complete in terms of the number of SMSAs included. The data provided pertains to water supplies serving interstate carriers and is not necessarily representative of drinking water in a given SMSA. Certain SMSAs are not represented at all. For any given SMSA, the water supplies listed as approved to serve interstate carriers may or may not supply all, or even most, of the drinking water. The value of the relative weights applied to water supplies to obtain an SMSA index is questionable as well. Although the weighting variable reflects the volume of water sold by the supplier, the weighting value may misrepresent the role of the particular water supply within the SMSA.

The raw data also has some problems. In many cases, small values are reported as less than a certain value rather than equal to a value. (For purposes of the present analysis, <x was interpreted as x/2.) Large fluctuations in test readings and obvious decimal errors were also encountered.

The derived index is not expected to perform well. A test of the resulting statistics was not encouraging. MTI and MFI were calculated for four water supplies in the New York SMSA for which data by both the multiple tube method and the membrane filter method were available. The statistics were as follows:

Water Supply	MTI	MFI
124	0.018	0.161
128	0.017	0.047
133	0.066	0.000
141	0.220	0.012

Roger Lee, of the Water Supply Division (EPA), was consulted on the merits of this index and the availability of alternatives. The consensus among his associated was that this index appears to be theoretically valid and a better statistic is not available at this time.

2. Chloride

Source: Chemical Analysis of Interstate Carrier Water Supply Systems (EPA)

Contact: Roger D. Lee, see above

Code (units): CL (mg/l)

Transformations: none

Number of SMSAs included: 207

Time of Observation: 1973-1975

Comment: Remarks above pertaining to water supplies serving interstate carriers are relevant here. Published data from chemical analysis of interstate carrier water supplies is available for the following:

alkyl benzene sulfonate
arsenic
barium
cadmium
*chloride
chromium
copper
carbon chloroform extract
cyanide
*fluoride
*iron
lead
*manganese
mercury
*nitrate
selenium
silver
sodium
*sulfate
*total dissolved solids
zinc
*acidity
*alkalinity
*hardness

Those marked by asterisks were chosen for use in the analysis based on their importance and completeness of the data.

3. Fluoride

Source: Chemical Analysis of Interstate Carrier Water Supply Systems (EPA)

Contact: Roger D. Lee, see above

Code (units): FL (mg/l)

Transformations: none

Number of SMSAs included: 202

Time of Observation: 1973-1975

Comment: Same as for chloride.

4. Iron

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): FE (mg/l)

Transformations: none

Number of SMSAs included: 206

Time of Observation: 1973-1975

Comment: Same as for chloride.

5. Manganese

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): MG (mg/l)

Transformations: none

Number of SMSAs included: 201

Time of Observation: 1973-1975

Comment: Same as for chloride.

6. Nitrate

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): NO3 (mg/l)

Transformations: none

Number of SMSAs included: 196

Time of Observation: 1973-1975

Comment: Same as for chloride.

7. Sulfate

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): SO3 (mg/l)

Transformations: none

Number of SMSAs included: 192

Time of Observation: 1973-1975

Comment: Same as for chloride.

8. Alkalinity

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): ALK (mg/l as $CaCO_3$)

Transformations: none

Number of SMSAs included: 189

Time of Observation: 1973-1975

Comment: Same as for chloride.

9. Hardness

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): HD (mg/l as $CaCO_3$)

Transformations: none

Number of SMSAs included: 191

Time of Observation: 1973-1975

Comment: Same as for chloride.

10. Acidity

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): PH (pH standard units)

Transformations: none

Number of SMSAs included: 204

Time of Observation: 1973-1975

Comment: Same as for chloride

11. Total Dissolved Solids

Source: Same as for chloride

Contact: Roger D. Lee, see above

Code (units): TDS (mg/l)

Transformations: none

Number of SMSAs included: 188

Time of observation: 1973-1975

Comment: Same as for chloride

II. Urban Form and the Physical Environment

A. Size

1. Square Miles Per Person -- SMSA

Source: *County and City Data Book*: Table 3 (Bureau of the Census)

Contact: None

Code (units): SQMS (sq.mi./person)

Transformations: This variable in the ratio of land area to population for the SMSA

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None

8. Square Miles Per Person -- Central City

Source: County and City Data Book: Table 6 (Bureau of the Census)

Contact: None

Code (units): SQMC (sq.mi./person)

Transformations: This variable is the ratio of land area to population for the central city of the SMSA

Number of SMSAs included: 262

Time of Observation: 1970

Comment: This variable is one of many which measure activity in the central city. It is intended to reflect the characteristics of the "core" of the SMSA and relationships between the core and the SMSA as a whole. SMSA titles are formulated in such a way as to make the identification of these cities possible.

> "The following guidelines are used for determining titles for standard metropolitan statistical areas:
>
> (a) The title of the standard metropolitan statistical area always includes the name of the largest city.
>
> (b) There shall be no more than three city names in the title of any standard metropolitan statistical area. The addition of up to two city names may be made in the area title on the basis of the following:
>
> (1) For those areas where the largest city has a population of 50,000 or more inhabitants (Criterion 1(a)), the additional city or cities must have a population equal to one-third or more of that of the largest city and a minimum population of 25,000, provided that the name of each additional city having a population of at least 250,000 will be included in the title.
>
> (2) For those areas where the largest city has a population of at least 25,000 but less than 50,000 (Criterion 1(b)), the additional city or cities must have a population equal to one-third or more of that of the largest city and a minimum population of 15,000.
>
> (c) Area titles which include the names of more than one city shall start with the largest city and list other cities in order of their size according to the most recent census, except that the names of cities qualifying an area as an SMSA under Criterion 1(b) shall precede those of any other qualifying city."*

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*U.S. Department of Commerce, National Bureau of Standards, Federal Information Processing Standards Publication 8-4: Standard Metropolitan Statistical Areas (June 30, 1974) p. 4.

Since SMSAs are named according to these criteria of relative size, SMSA titles were used to identify central cities. For purposes of this research, those cities whose names appeared in an SMSA title were considered central cities of that SMSA.

There are many reasons why central city data is less than satisfactory in representing the core of an SMSA. First: the criteria for naming SMSAs are arbitrary and do not necessarily reflect the interactions within an SMSA. Second: city boundaries are in most cases, unrelated to the distribution of activity within an SMSA. Therefore, the inclusion or exclusion of an entire city may often be misleading. Third: all data for central cities was taken from the *County and City Data Book, 1972* (U.S. Bureau of the Census). Data is reported for cities with populations of 25,000 or more in Table 6. Fifteen of the SMSAs under study, however, include the names of smaller cities in their titles:

1240	Brownsville-Harlingen-San Benito, Texas
1260	Bryan-College Station, Texas
3920	Lafayette-West Lafayette, Indiana
3980	Lakeland-Winter Haven, Florida
4240	Lewiston-Auburn, Maine
4410	Long Branch-Asbury Park, New Jersey
4880	McAllen-Pharr-Edinburg, Texas
4900	Melbourne-Titusville-Cocoa, Florida
5320	Muskegon-Muskegon Heights, Michigan
6020	Parkersburg-Marietta, West Virginia-Ohio
6140	Petersburg-Colonial Heights-Hopewell-Virginia
6740	Richland-Kennewick, Washington
7640	Sherman-Dennison, Texas
8360	Texarkana, Texas-Texarkana, Arkansas
8760	Vineland-Millville-Bridgeton, New Jersey

Central city data for these SMSAs has been compiled for those cities with populations of 25,000 or more.

3. Square Miles Per Person -- Urban Places

Source: Unpublished data

Contact: Robert Otte, Natural Resources Economics Division, Economic Research Service, U.S. Department of Agriculture (202-447-2303)

Code (units): SQMU (sq.mi./person)

Transformations: This variable is the ratio of land area to population for the urban area of the SMSA.

Number of SMSAs included: 235

Time of Observation: 1970

Comment: This variable is intended to measure the average density of closely settled population centers in an SMSA. The portion of the SMSA considered urban here consists of urbanized areas defined by the Census Bureau and "places" of 2500 inhabitants or more within the SMSA.

An urbanized area, as defined for the Census, consists of a central city, and adjacent closely settled territory. The specific criteria used by the Census Bureau to delineate an urbanized area as follows:

"1. a. A central city of 50,000 inhabitants or more in 1960, in a special census conducted by the Census Bureau since 1960, or in the 1970 census; or

b. Twin cities, i.e., cities with contiguous boundaries and constituting, for general social and economic purposes, a single community with a combined population of at least 50,000 and with the smaller of the twin cities having a population of at least 15,000.

2. Surrounding closely settled territory, including the following (but excluding the rural portions of extended cities; see "extended cities," below):

a. Incorporated places of 2,500 inhabitants or more.

b. Incorporated places with fewer than 2,500 inhabitants, provided that each has a closely settled area of 100 housing units or more.

c. Small parcels of land normally less than one square mile in area having a population density of 1,000 inhabitants or more per square miles. The areas of large nonresidential tracts devoted to such urban land uses as railroad yards, airports, factories, parks, golf courses, and cemetaries are excluded in computing the population density.

d. Other similar areas in unincorporated territory with lower population density provided that they serve

--to eliminate enclaves, or
--to close indentations in the urbanized areas of one mile or less across the open end, or
--to link outlying enumeration districts of qualifying density that are not more than 1½ miles from the main body of the urbanized area."*

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*U.S. Department of Commerce, Bureau of the Census, County and City Data Book, 1972, p. xxiv.

Places are delineated for the Census so as to possess a definite nucleus of residences and include all the surrounding closely settled area. Data generated by ERS include both unincorporated and incorporated places.

Aggregation of these data by SMSA is complicated by the overlapping of SMSAs and urbanized areas.

> "There is generally one urbanized area in each standard metropolitan statistical area. Sometimes, however, there are two because there exists another qualifying city with 50,000 inhabitants or more whose surrounding urban fringe is separated from the urban fringe of the larger central city or cities. (The Chicago metropolitan area has three urbanized areas.) In other cases, a single urbanized area covers portions of two or more standard metropolitan statistical areas. One metropolitan area (New London-Groton-Norwich, Conn.) has no urbanized area."*

This should not be a problem in the finished data.

B. Distribution of Activity

1. Portion of Total Population in the Central City

Source: U.S. Bureau of the Census, County and City Data Book 1972

Contact: None

Code (units): CENP (percent)

Transformations: This variable is the ratio of central city population to SMSA population, expressed as a percentage.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: Remarks pertaining to central city data annotated under "square miles per person -- central city" are relevant here.

2. Portion of Manufacturing in Central City (by value added)

Source: County and City Data Book, 1972, see above

Contact: None

Code (units): CENM (percent)

Transformations: This variable is the ratio of value added by manufacturing in the central cities and value added by manufacturing in the SMSA, expressed as a percentage.

Number of SMSAs included: 231

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*Ibid.

Time of Observation: 1967

Comment: In many instances total value added by manufacturing was not disclosed in order to protect the confidentiality of individual firms. Manufacturing was assumed to be insignificant for these areas and total value added was set equal to zero.

Remarks pertaining to central cities in general are related under "square miles per person -- central city."

3. Portion of Retail Sales in Central City

Source: County and City Data Book, 1972, see above.

Contact: None

Code (units): CENS (percent)

Transformations: This variable is the ratio of retail sales in central cities to retail sales in the SMSA, expressed as a percentage

Number of SMSAs included: 256

Time of Observation: 1967

Comment: Remarks pertaining to central cities in general are related under "square miles per person -- central city."

4. Portion of Employment in the Central City

Source: County and City Data Book, 1972, see above

Contact: None

Code (units): CENE (percent)

Transformations: ratios of central city employment to SMSA employment

Number of SMSAs included: 262

Time of Observation: 1970

Comments: Remarks pertaining to central cities in general are related under "square miles per person -- central city."

5. Portion of Manufacturing Employment in the Central City

Source: County and City Data Book, 1972, see above

Contact: None

Code (units): CENME (percent)

Transformations: ratio of central city manufacturing employment to SMSA manufacturing employment

Number of SMSAs included: 262

Time of Observation: 1970

Comment: Remarks pertaining to central cities in general are related under "square miles per person -- central city."

C. Open Space

1. Portion of Land Which is Urbanized

Source: Economic Research Service (USDA); unpublished data and Bureau of the Census, County and City Data Book, 1972

Contact: Robert Otte, Natural Resources Economics Division, Economics Research Service, U.S. Department of Agriculture (202-447-2303)

Code (units): LU (percent)

Transformations: This variable is a ratio of thickly settled land to total land area in the SMSA, expressed as a percentage.

Number of SMSAs included: 236

Time of Observation: 1970

Comment: Remarks pertaining to ERS data on urban land are related under "square miles per person -- urban places."

2. Land Devoted to Outdoor Recreation

Source: Unpublished data

Contact: William Spitzer, Data Processing, Bureau of Outdoor Recreation (202-343-8055)

Code (units): REC (percent of total land area)

Transformations: This variable is the ratio of land area devoted to outdoor recreation and total land area, expressed as a percentage.

Number of SMSAs included: 239

Time of Observation: 1972

Comment: Data for New England has not been utilized since it is imprecisely derived from raw data which consists of totals by county. As New England SMSAs are made up of parts of counties, the available data is not useful.

3. Land in Farms

Source: County and City Data Book, 1972, see above

Contact: None

Code (units): LA (percent)

Transformations: This variable is a ratio of farm land to total land in an SMSA

Number of SMSAs included: 240

Time of Observation: 1969

Comment: The County and City Data Book documents total acreage occupied by farms by county. Aggregation of this data to the SMSA level has been achieved for all SMSAs except those located in New England, where SMSAs are composed of parts of counties rather than entire counties.

D. Number of Population Centers

1. Number of Population Centers

Source: List of SMSAs as of January 7, 1972 (compiled from several sources)

Contact: Hazel McEwan, National Bureau of Standards (202-921-3157) and Mr. Elliot, Office of Management and Budget (202-395-4854)

Code (units): PCR (none)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1972

Comment: The number of population centers is arbitrarily assumed to be equal to the number of city names in the SMSA title.

2. Arc of the SMSA around the Center

Source: Rand McNally Road Atlas

Contact: None

Code (units): ARC (quadrants)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1975

Comment: The arc of the SMSA around its center was measured in quadrants rather than degrees or octants because of the unusual shapes of many SMSAs and because the SMSA boundaries and centroids were not delineated.

3. Number of Major Radial Roadways

Source: Rand McNally Road Atlas

Contact: None

Code (units): RAD (none)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1975

Comment: Radial and circumferential facilities are not always easily identified from the road atlas. Often a single facility serves partially as a radial and partially as a circumferential facility. It is especially difficult to differentiate in SMSAs which are generally linear in shape or which include more than one central city. The matter is further complicated by the cartographer's efforts to show as many facilities as possible without cluttering the map. All roads are classified, however, the density of each class of facilities appears rather constant between SMSAs. We conclude the classification of roadways is more a function of the scale of the maps than the shape and size of the city or the capacity and level of servive of the roadway.

4. Number of Major Circumferential Roadways

Source: *Rand McNally Road Atlas*

Contact: None

Code (units): CIR (none)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1975

Comments: Remarks concerning the identification of major roadways from the atlas are documented above (see Number of Major Radial Roadways).

5. Portion of Workers Working Outside SMSA

Source: U.S. Bureau of the Census, *1970 Census of Population and Housing*

Contact: Larry Carbaugh, Data Users Service, Bureau of the Census (301-763-7720)

Code (units): TCOM (percent)

Transformations: None

Number of SMSAs included: 248

Time of Observation: 1970

Comment: None.

6. Portion of Principal Arterials

Source: Unpublished data from the National Highway Functional Classification and Needs Study

Contact: David McElhaney, Highway Needs Branch, Federal Highway Administration (202-426-0230)

Code (units): HWPR (percent)

Transformations: ratio to total highway miles in the SMSA

Number of SMSAs included: 228

Time of Observation: 1980

Comment: This data is documented by National Highway Functional Classification and Highway Needs Study Manual (FHWA, 1970), and 1974 National Highway Needs Study Instructions (FHWA, 1972). Data are local government estimates of facility mileage in 1990.

7. Total Miles of Roadway per Capita

Source: Same as for Proportion of Principal Arterials

Contact: David McElhaney, see above

Code (units): HWPC (miles per capita)

Transformations: ratio to SMSA population

Number of SMSAs included: 228

Time of Observation: 1990

Comment: Same as for Proportion of Principal Arterials.

E. Assimilative Attributes

1. Latitude of SMSA

Source: U.S. Geological Survey, Index to Topographical Index

Contact: Branch of Distribution, Geological Survey, Federal
Center, Denver, Colorado 80225 (303-234-3832), and
1200 South Eads Street, Arlington, Virginia 22202
(202-343-5248)

Code (units): LAT (degrees)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1972

Comment: The latitude and longitude of the SMSA are taken from an arbitrarily chosen point on the boundary of the SMSA (the boundary of the SMSA having been described in latitudes and longitudes for retrieval of STORET data). As the latitude and longitude measures are intended to reflect regional differences, an arbitrarily selected point should perform as well as the centroid of the SMSA.

2. Longitude

Source: Same as for Latitude

Contact: Same as for Latitude

Code (units): LONG (degrees)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1972

Comment: Same as for latitude.

3. Altitude

Source: Mobile Travel Guide (1974), 1974 Commercial Atlas and Marketing Guide by Rand McNally and Company.

Contact: None

Code (units): ALT (feet)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1974

Comment: In many cases, the altitude at the center of the city was not available and estimates were generated from nearby elevations.

4. Precipitation (mean annual)

Source: Bureau of the Census, County and City Data Book, 1972.

Contact: None

Code (unit): PRE (inches)

Transformations: None

Number of SMSAs included: 262

Time of Observation: 1931-1960

Comment: Weather data is published in the County and City Data Book by city. Since not all cities have weather stations, data from nearby stations are reported where appropriate. Perusal of the data with these substitutions reveals instances of reversed digits and unlikely values for neighboring cities within an SMSA.

5. Sunlight (mean annual possible)

Source: Bureau of the Census, County and City Data Book, 1972.

Contact: None

Code (units): SUN (percent)

Transformations: None

Number of SMSAs included: 136

Time of Observation: 1931-1960

Comment: Same as above (see Precipitation).

6. Wind

Source: Bureau of the Census, County and City Data Book, 1972.

Contact: None

Code (units): WIND (m.p.h.)

Transformations: None

Number of SMSAs included: 191

Time of Observation: 1931-1960

Comment: Same as precipitation.

7. Inversions (mean annual frequency)

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Areas, 1970 (Prepared for Washington Environmental Research Center, EPA, 1975)

Contact: Robert C. Livingston, see above

Code (units): INV (inversions per year)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

8. Water Temperature (ambient)

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): WTMP (°C)

Transformations: none

Number of SMSAs included: 257

Time of Observation: 1970-1975

Comments: Remarks pertaining to STORET data and its retrieval are relevant here (see Biochemical Oxygen Demand). Values exceeding 110°C were rejected.

9. Dissolved Oxygen in Water (ambient)

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): DO (mg/l)

Transformations: none

Number of SMSAs included: 246

Time of Observation: 1970-1975

Comment: Remarks pertaining to STORET data and its retrieval are relevant here (see Biochemical Oxygen Demand). Values exceeding 25 mg/l were rejected.

10. Hardness of Water (ambient)

Source: STORET data bank (EPA)

Contact: Lou Gitto, see above

Code (units): HARD (mg/l as $CaCO_3$)

Transformations: none

Number of SMSAs included: 249

Time of Observation: 1970-1975

Comment: Remarks pertaining to STORET data and its retrieval are relevant here (see Biochemical Oxygen Demand). Values exceeding 15,000 mg/l as $CuCO_3$ were rejected.

11. Large Water Bodies

Source: Rand McNally and Company, 1974 Commercial Atlas and Marketing Guide

Contact: None

Code (units) WTR (number)

Transformations: none

Number of SMSAs included: 262

Comment: This is a dichotomous variable: it assumes values of 0 and 1. A value of 1 indicates a large body of water (a body of water other than a river which is large enough to be colored blue in the atlas). An attempt was made to differentiate between SMSAs with rivers and those without, but the number of SMSAs without rivers was not significant.

III. Residuals

A. Air

1. Particulates

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): HPAR (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Data on residuals from the SEAS data bank is estimated rather than measured. Industry coefficients are developed for approximately 400 pollution producing economic sectors and subsectors. These coefficients relate the generation of a specific pollutant by the particular industry to the output of that industry at the national level.[8] The coefficient times the output of the industry in the given SMSA equals the total gross residual. A second coefficient estimating abatement by sector is applied to the gross residual at the SMSA level to obtain the net residual.

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[8] International Research & Technology Corporation, SEAS Phase III Reference Data Documentation (Arlington, VA, 1975)

Industry output at the SMSA level is measured by total value. 1975 data used here is actually forecast by the SEAS macromodel rather than measured. The national forecast is shared out between SMSAs based on disaggregate forecasts prepared by the Bureau of Economic Analysis (OBERS).

Because residuals estimates are based on coefficients for industry sectors, they are insensitive to important sources of variation. First, there is significant variation in industrial processes between regions in the same sector. For example, the Northeast has many very old plants which would be expected to operate very differently from the newer plants in the Midwest. Second, the composition of industry within each sector will vary between SMSAs. Measuring output to total value also produces distortions, since total value of products and amount of pollutant produced are directly related only for a single manufacturing process.

Generation and abatement coefficients are forecast from a base year, assuming compliance with given standards at target years and interpolating between base and target years.

2. Sulfur Oxides

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RSO (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

3. Nitrogen Oxides

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RNOX (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

4. Hydrocarbons

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RHC (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

5. Carbon Monoxide

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RCO (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

B. Water

1. Biochemical Oxygen Demand

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RBOD (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

2. Suspended Solids

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RSS (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 249

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

3. Dissolved Solids

   Source: SEAS data bank (EPA)

   Contact: Ralph Ubico, see above

   Code (units): RDS (tons per year per capita)

   Transformations: ratio to population

   Number of SMSAs included: 249

   Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

4. Nutrients

   Source: SEAS data bank (EPA)

   Contact: Ralph Ubico, see above

   Code (units): RNUT (tons per year per capita)

   Transformations: ratio to population

   Number of SMSAs included: 249

   Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

5. Wastewater

   Source: SEAS data bank (EPA)

   Contact: Ralph Ubico, see above

   Code (units): RWW (million gallons per year per capita)

   Transformations: ratio to population

   Number of SMSAs included: 249

   Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

C. Land

1. Non-combustible Solid Waste

   Source: SEAS data bank (EPA)
   Contact: Ralph Ubico, see above
   Code (units): RNSW (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 349

Time of Observation: 1975

Comment: Remarks above pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

2. Industrial Sludges

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): RIS (tons per year per capita)

Transformations: ratio to population

Number of SMSAs included: 349

Time of Observation: 1975

Comment: Remarks pertaining to the estimation of residuals by SEAS are relevant here (see particulates).

IV. Households

A. Social Status

1. Median Age

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): AGE (years)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

2. Portion of Population Which is Black

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): PBL (percent)

Transformations: ratio of Black population to total population

Number of SMSAs included: 257

Time of Observation: 1970

Comment: None.

3. Portion of Population Which is of Foreign Stock

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): PF (percent)

Transformations: ratio of first and second-generation Americans to total population

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

4. Fertility Rate

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): FR (children ever born per thousand women ever married)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

5. Married Couples without Own Household

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Areas, 1970, see above.

Contact: Robert C. Livingston, see above

Code (units): NOH (percent)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

6. Portion of Population Which is Urban

Source: County and City Data Book, 1972 (Bureau of the Census)

Contact: None

Code (units): PU (percent)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

7. Movers into the SMSA

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): MIGP (percent of individuals over 5 years of age)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

8. Individuals Residing at the Same Dwelling for Five Years

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): NMOV (percent)

Transformations: ratio to total population over 5 years of age

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

9. Average Household Size

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): PPH (persons per household)

Transformations: none

Number of SMSAs included: 260

Time of Observation: 1970

Comment: None.

10. Female/Male in 20-64 Age Group

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): FTM (none)

Transformations: This variable is a ratio of females to males in the 20-64 year range.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

B. Housing

1. Single Family Dwellings

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): H1U (percent)

Transformations: This variable is the ratio of single family dwellings to all housing units, expressed as a percentage.

Number of SMSAs included: 258

Time of Observation: 1970

Comment: This measure was chosen rather than detached housing units based on data availability. Since the number of single family dwellings which are not detached is normally very small relative to the total housing stock, this choice is not expected to have a significant impact on the results.

2. Owner-Occupied Housing

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact : None

Code (units): HOCC (percent)

Transformations: This variable is the ratio of owner-occupied housing units to total housing units, expressed as a percentage.

Number of SMSAs included: 258

Time of Observation: 1970

Comment: None.

3. Units in Structure with More than Five Units

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): H5U (percent)

Transformations: This variable is the ratio of housing units in structures of more than 5 units to total housing units, expressed as a percentage.

Number of SMSAs included: 236

Time of Observation: 1970

Comment: None.

4. Units in Structure With more than Fifty Units

Source: Bureau of the Census, *1970 Census of Population and Housing*

Contact: None

Code (units): H50U (percent)

Transformations: This variable is the ratio of housing units in structures of more than fifty units to total housing units.

Number of SMSAs included: 235

Time of Observation: 1970

Comment: None.

C. Growth

1. Population Change -- SMSA

Source: Bureau of the Census, *County and City Data Book, 1970*

Contact: None

Code (unitr): PCS (percent)

Transformations: none

Number of SMSAs included: 258

Time of Observation: 1960-1970

Comment: Changes in SMSA boundaries are taken into account in deriving this variable.

2. Population Change -- Central City

Source: Bureau of the Census, *County and City Data Book, 1970*

Contact: None

Code (units): PCC (percent)

Transformations: none

Number of SMSAs included: 260

Time of Observation: 1960-1970

Comment: Remarks pertaining to central city identification are relevant here (see square miles per person -- central city).

3. Change in Median Income

Source: Bureau of the Census, *County and City Data Books, 1962, 1967, 1972*

Contact: None

Code (units): YMC (percent)

Transformations: none

Number of SMSAs included: 222

Time of Observation: 1959-1970

Comment: None.

D. Economic Welfare

1. Income -- Gini Coefficient

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): GINI (none)

Transformations: The Gini coefficient is derived from percentages of families in each of seven income ranges:

less than $3,000
$3,000-$4,999
$5,000-$6,999
$7,000-$9,999
$10,000-$14,999
$15,000-$24,999
$25,000 and over

The coefficient calculates the difference between a perfectly uniform distribution of income and the distribution indicated by percentages of families in each interval. Figure 2-2 sketches the two distributions. The percentage of total income is graphed on the vertical axis; the percentage of the population--ranked from the poorest to the richest--is graphed along the horizontal. A perfectly equal distribution of income is represented by the diagonal of the square. The actual (unequal) distribution is indicated by the lower curve. The cross-hatched section, then, is a measure of inequality. The ratio of the cross-hatched section to the total area under the diagonal is known as the Gini coefficient and serves as a summary measure of the degree of inequality. The Gini index is used by the Bureau of the Census as a summary measure of the income concentration.

The formula used to calculate the Gini index (G) is as follows:

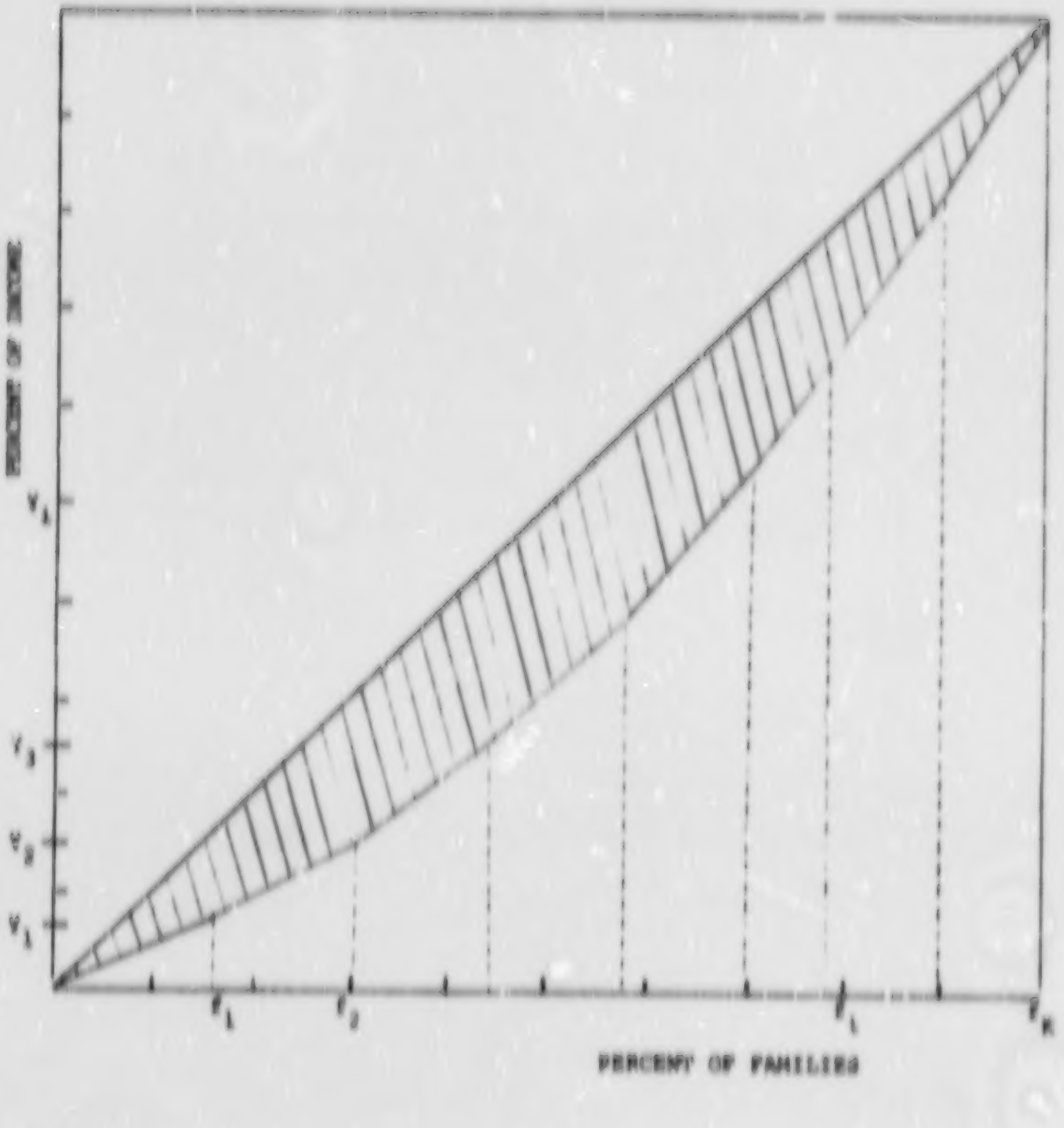
$$G = 1 - \sum_{i=1}^{K} \left[\frac{f_i - f_{i-1}}{100\%}\right]\left[\frac{Y_i - Y_{i-1}}{100\%}\right]$$

where K = number of income brackets
f = cumulative distribution of family units
Y = cumulative income distribution

The use of this formula is straightforward except with respect to the highest income bracket: $25,000 and over. In this case, Y_i is not known, however the Bureau of the Census provides an

Figure 2-2

Cumulative Distribution of Family Income



accepted method for estimating the mean of the open-end interval:

$$\bar{X} = X\left(\frac{V}{V-1}\right)$$

where $V = \frac{c-d}{b-a}$

X = lower limit of open-end interval
a = log of lower limit of interval preceding open-end
b = log of lower limit of open-end interval
c = log of the sum of the frequencies in the open-end interval and the one preceding it
d = log of the frequency in the open-end interval.

> "This method of estimating the mean for the upper ranges of an income distribution is based largely on the empirical observation of ... Pareto ... [who] ... found that the upper ranges of the income distribution could be described by a curve of the general type, $Y = AX^{-V}$, where X is the income size and Y is the number of persons having that income or larger."*

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

2. Median Family Income

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): YM ($)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1970

Comment: Median income was not adjusted for cost of living because adequate data was not available (see documentation of cost of living indices under "Other Noteworthy Data").

3. Per Capita Income

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): YP ($)

Transformations: none

---

*Bureau of the Census, Trends in the Distribution of Income.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: Per capita income was not adjusted for cost of living because adequate data was not available (see documentation under "Other Noteworthy Data").

4. Employment/Population -- Male

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): EMP (percent)

Transformations: This variable is the ratio of males employed to total male population of working age, expressed as a percentage.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None

5. Employment/Population -- Female

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): EPF (percent)

Transformations: This variable is the ratio of females employed to total female population of working age, expressed as a percentage.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

6. Employment/Population -- Total

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): EPT (percent)

Transformations: This variable is the ratio of persons employed to total person population of working age, expressed as a percentage.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

7. Employment/Population -- Black

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: None

Code (units): EP9 (percent)

Transformations: This variable is the ratio of Black people employed to total Black population of working age, expressed as a percentage.

Number of SMSAs included: 257

Time of Observation: 1970

Comment: None

E. Living Conditions

1. Crowded Housing Units

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): HC (percent)

Transformations: This variable is the ratio of housing units with more than one person per room to total housing units, expressed as a percentage.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

2. Infant Death Rate

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Area, 1970, see above.

Contact: Robert C. Livingston, see above

Code (units): DI (deaths per thousand live births)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

3. Relative Death Rate (adjusted for age)

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Area, 1970, see above; and Bureau of the Census, Statistical Abstract of the U.S. (1973), p. 57.

Contact: None

Code (units): RD (deaths per thousand population)

Transformations: The relative death rate is calculated as the ratio of the observed death rate to the expected death rate. The expected death rate is estimated from statistics on age distribution for each SMSA and national averages on death rates for specific age categories.

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None

F. Modal Split

1. Household with One or More Automobiles

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): AUTO (percent of total households)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1970

Comment: None.

2. Work Trip -- Drivers

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: Larry Carbaugh, Data Users Service, Bureau of the Census (301-763-7720)

Code (units): TD (percent)

Transformations: This variable is the ratio of workers who drive to work to all workers, expressed as a percentage.

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

3. Work Trip -- Passengers

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: Larry Carbaugh, see above

Code (units): TP (percent)

Transformations: This variable is the ratio of workers who are either auto passengers or public transportation passengers to total workers, expressed as a percentage.

Number of SMSAs included: 243

Time of Observation: 1970

Comment: None.

4. Work Trip -- Walkers

Source: Bureau of the Census, 1970 Census of Population and Housing

Contact: Larry Carbaugh, see above

Code (units): TWK (percent)

Transformations: This variable is the ratio of workers who walk to all workers, expressed as a percentage.

Number of SMSAs included: 243

Time of Observation: 1970

Comment: None.

5. Vehicle-Miles Travelled

Source: Table D-2a: "Population, Total Travel, and Daily Vehicle-Miles per Capita by Urbanized Area ..." National Highway Functional Classification and Needs Study Manual, Federal Highway Administration (1970): pp. D-11 to D-17.

Contact: David McElhaney, Highway Needs Branch, Federal Highway Administration (202-426-0230)

Code (units): VMTP (vehicle miles per capita)

Transformations: none

Number of SMSAs included: 224

Time of Observation: 1967

Comment: This data is available for urbanized areas only. Since the per capita measure is available, the use of urbanized areas rather than SMSAs is not expected to cause unacceptable distortion in factor analysis and clustering analysis.

G. Climate

1. Mean Temperature in January

Source: Bureau of the Census, County and City Data Book, 1972

Contact: None

Code (units): TJA (^{o}F)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1931-1960

Comment: Remarks relevant to weather data from the *County and City Data Book* have been presented above (see precipitation).

2. Mean Temperature in July

Source: Bureau of the Census, *County and City Data Book, 1972*

Contact: None

Code (units): TJU (°F)

Transformations: none

Number of SMSAs included: 262

Time of Observation: 1931-1960

Comment: Remarks relevant to weather data from the *County and City Data Book* have been presented above (see precipitation).

V. Community Action

A. Expenditures Related to the Environment

1. Sewerage Expenditures -- Total

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas* (Vol. V, 1972)

Contact: None

Code (units): GXS (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 262

Time of Observation: 1972

Comment: None.

2. Sewerage Expenditures -- Other than Capital Outlay

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas*, see above.

Contact: None

Code (units): GXSM (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 262

Time of Observation: 1972

Comment: None.

3. Expenditures On Sanitation Other than Sewerage

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas*, see above

Contact: None

Code (units): GXSO (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 261

Time of Observation: 1972

Comment: None.

4. Expenditures on Water Supply

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas*, see above

Contact: None

Code (units): GXW (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 255

Time of Observation: 1972

Comment: None.

5. Expenditures on Parks and Recreation

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas*, see above

Contact: None

Code (units): GXPR (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 262

Time of Observation: 1972

Comment: None.

B. Community Concern and Involvement

1. Local Government -- General Expenditures

Source: Bureau of the Census, *Census of Governments: Local Government in Metropolitan Areas*, see above

Contact: None

Code (units): GX (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 259

Time of Observation: 1967

Comment: None.

2. Local Government -- General Revenue

Source: Bureau of the Census, Census of Governments: Local Government in Metropolitan Areas, see above

Contact: None

Code (units): GREV (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 259

Time of Observation: 1967

Comment: None.

3. Local Government -- Employment

Source: Bureau of the Census, Census of Governments: Local Government in Metropolitan Areas, see above

Contact: None

Code (units): GEMP (full time equivalent per capita)

Transformations: ratio to population

Number of SMSAs included: 259

Time of Observation: 1967

Comment: None.

4. Presidential Votes Cast per Voting Age Population

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Areas, 1970, see above

Contact: Robert Livingston, see above

Code (units): VOT (votes per person)

Transformations: none

Number of SMSAs included: 242

Time of Observation: 1970

Comment: None.

5. Sunday Newspaper Circulation per Capita

Source: Ben-Chieh Liu, Quality of Life Indicators in U.S. Metropolitan Areas, 1970, see above

Contact: Robert Livingston, see above

Code (units): NEW (papers published per thousand population)

Transformations: none

Number of SMSAs included: 241

Time of Observation: 1970

Comment: None.

VI. Industry

A. Industries Critical to Environmental Quality

1. Total Value for Products for Sector 3*

Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above

Code (units): IPI/T (dollars per capita)

Transformations: ratio to population

Number of SMSAs included: 248

Time of Observation: 1975

Comment: Critical industries were identified from SEAS data on national levels of gross and net residuals by industry sector, type of pollutant and medium (air, land, water). 1971 data on industries contributing 0.5% or more of the net residual in a given category was examined to identify those industries which contribute the largest shares of pollutants and those which achieve the lowest levels of abatement (at the national level).

Heavy polluters for each type of pollutant were defined as those industries which together generate more than fifty percent of the national net residual in the particular pollutant category. Industries achieving the lowest levels of abatement were identified as those which removed 5% or less of the gross residual before discharge.

The composite list of industry sectors resulting from this analysis is presented as Figure 2-3.

Total value of products is the only measure of industry by SMSA sector available in SEAS.

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*See Figure 2-3.

Figure 2-3

Selected Industry Sectors

VARIABLE NAME	SECTOR NUMBER*	SECTOR NAME
IFLT	3	Meat Animals, other Livestock
ICOL	14	Coal Mining
IOIL	15	Crude Petroleum, Natural Gas
IMET	23	Meat Products
IVEG	25	Canned and Frozen Foods
ICTH	35	Broad and Narrow Fabrics
IFRN	45	Household Furniture
IPLP	47	Pulp Mills
IPPR	48	Paper and Paperboard Mills
ICHM	55	Industrial Chemicals
IPRT	57	Commercial Printing
IFRT	59	Fertilizers
IMCM	61	Miscellaneous Chemical Products
IPLA	62	Plastic Materials and Resin
IFBR	64	Cellulosic Fibers
IPNT	68	Paints
IFUL	69	Petroleum Refining
IASP	71	Paving and Asphalt
ITAN	75	Leather and Industrial Leather Products
IGLS	78	Glass
ICLY	79	Structural Clay products
ICMT	81	Cement, Concrete, Gypsum
IABS	82	Other Stone and Clay Products
ISTL	83	Steel
ICU	84	Copper
IPB	85	Lead
IZN	86	Zinc
IALM	87	Aluminum
IMTL	101	Other Fabricated Metal Products
IAPL	123	Household Appliances
ICAR	133	Motor Vehicles
IELC	160	Electric Utilities
IWST	163	Wholesale Trade

*The code numbers given above are for INFORUM industry sectors, the taxonomy used by SEAS.

2. Total Value of Products for Sector 14*
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICOL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

3. Total Value of Products for Sector 15
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IOIL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

4. Total Value of Products for Sector 23
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IMET (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

5. Total Value of Products for Sector 25
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IVEG (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

---

*See Figure 2-3.

6. Total Value of Products for Sector 35
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICTH (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

7. Total Value of Products for Sector 45
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IFRN (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

8. Total Value of Products for Sector 47
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IPLP (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

9. Total Value of Products for Sector 48
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IPPR (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

10. Total Value of Products for Sector 55
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICBH (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

11. Total Value of Products for Sector 57
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IFRT (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

12. Total Value of Products for Sector 59
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IFRT (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

13. Total Value of Products for Sector 61
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IMCH (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

14. Total Value of Products for Sector 62
Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above
Code (units): IPLA (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

15. Total Value of Products for Sector 64
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IPBR (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

16. Total Value of Products for Sector 68
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IPNT (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

17. Total Value of Products for Sector 69
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IPVL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

18. Total Value of Products for Sector 71
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above

Code (units): IASP (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

19. Total Value of Products for Sector 75
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ITAN (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

20. Total Value of Products for Sector 78
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IGLS (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

21. Total Value of Products for Sector 79
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICLY (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975

Comment: See documentation for Sector 3.

22. Total Value of Products for Sector 81
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICMT (dollars per capita)
Transformations: ratio to population

Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

23. Total Value of Products for Sector 82
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IABS (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

24. Total Value of Products for Sector 83
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ISTL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

25. Total Value of Products for Sector 84
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICU (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

26. Total Value of Products for Sector 85
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above

Code (units): IPB (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

27. Total Value of Products for Sector 86
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IEN (dollars per capita)
Transformations: ratio to population
Number ofSMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

28. Total Value of Products for Sector 87
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IALM (dollars per capita)
Transformations: ratio to population
Number ofSMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

29. Total Value of Products for Sector 101
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IMTL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

30. Total Value of Products for Sector 123
Source: SEAS data bank (EPA)

Contact: Ralph Ubico, see above
Code (units): IAPL (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

31. Total Value of Products for Sector 133
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): ICAR (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

32. Total Value of Products for Sector 160
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IELC (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

33. Total Value of Products for Sector 163
Source: SEAS data bank (EPA)
Contact: Ralph Ubico, see above
Code (units): IWST (dollars per capita)
Transformations: ratio to population
Number of SMSAs included: 248
Time of Observation: 1975
Comment: See documentation for Sector 3.

B. Total Manufacturing

1. Value Added by All Manufacturing

Source: Bureau of the Census, County and City Data Book, 1972
Contact: None
Code (units): VAM (dollars per capita)
Transformations: none
Number of SMSAs included: 259
Time of Observation: 1967

Comment: None.

2. Total Employment in Manufacturing

Source: Bureau of the Census, County and City Data Book, 1972
Contact: None
Code (units): EM (percent of total employment)
Transformations: none
Number of SMSAs included: 262
Time of Observation: 1967

Comment: None.

C. Industry Mix

1. Total Retail Sales

Source: Bureau of the Census, 1972 Census of Manufacturing
Contact: None
Code (units): RETT ($000)
Transformations: ratio to population
Number of SMSAs included: 244
Time of Observation: 1972

Comment: None

2. Total Wholesale Sales

Source: Bureau of the Census, 1972 Census of Manufacturing
Contact: None
Code (units): WHOL ($000)
Transformations: ratio to population
Number of SMSAs included: 249
Time of Observation: 1972

Comment: None.

3. Selected Services

   Source: Bureau of the Census, 1972 Census of Manufacturers

   Contact: None

   Code (units): SS ($000)

   Transformations: ratio to population

   Number of SMSAs included: 244

   Time of Observation: 1972

Comment: None.

4. Total Value Added in Food and Kindred Products (SIC 20)

   Source: Bureau of the Census, 1972 Census of Manufacturers

   Contact: None

   Code (units): S20 ($ millions)

   Transformations: ratio to population

   Number of SMSAs included: 246

   Time of Observation: 1972

Comment: None.

5. Total Value Added in Textile Mill Products (SIC 22)

   Source: Bureau of the Census, 1972 Census of Manufacturers

   Contact: None

   Code (units): S22 ($ millions)

   Transformations: ratio to population

   Number of SMSAs included: 247

   Time of Observation: 1972

Comment: None.

6. Total Value Added in Apparel and Other Textile Mill Products (SIC 23)

   Source: Bureau of the Census, 1972 Census of Manufacturers

   Contact: None

   Code (units): S23 ($ millions)

   Transformations: ratio to population

   Number of SMSAs included: 248

   Time of Observation: 1972

Comment: None.

7. Total Value Added in Lumber and Wood Products (SIC 24)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S24 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 245
Time of Observation: 1972
Comment: None.

8. Total Value Added in Furniture and Fixtures (SIC 25)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S25 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 245
Time of Observation: 1972
Comment: None.

9. Total Value Added in Paper and Allied Products (SIC 26)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S26 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 245
Time of Observation: 1972
Comment: None.

10. Total Value Added in Printing and Publishing (SIC 27)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S27 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 246
Time of Observation: 1972
Comment: None.

11. Total Value Added in Chemicals and Allied Products (SIC 28)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S28 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 246
Time of Observation: 1972
Comment: None.

12. Total Value Added in Petroleum and Coal Products (SIC 29)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S29 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 246
Time of Observation: 1972
Comment: None.

13. Total Value Added in Rubber and Plastic Products (SIC 30)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S30 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 245
Time of Observation: 1972
Comment: None.

14. Total Value Added in Leather and Leather Products (SIC 31)
Source: Bureau of the Census, 1972 Census of Manufacturers
Contact: None
Code (units): S31 ($ millions)
Transformations: ratio to population
Number of SMSAs included: 245
Time of Observation: 1972
Comment: None.

15. Total Value Added in Stone, Clay and Glass Products (SIC 32)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): E32 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 246

Time of Observation: 1972

Comment: None.

16. Total Value Added in Primary Metal Industries (SIC 33)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): E33 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 244

Time of Observation: 1972

Comment: None.

17. Total Value Added in Fabricated Metal Products (SIC 34)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): E34 ($ millions)

Number of SMSAs included: 245

Time of Observation: 1972

Comment: None.

18. Total Value Added in Machinery, Except Electrical (SIC 35)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): E35 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 245

Time of Observation: 1972

Comment: None.

19. Total Value Added in Electrical Equipment and Supplies (SIC 36)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): S36 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 244

Time of Observation: 1972

Comment: None.

20. Total Value Added in Transportation Equipment (SIC 37)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): S37 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 241

Time of Observation: 1972

Comment: None.

21. Total Value Added in Instruments and Related Products (SIC 38)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): S38 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 240

Time of Observation: 1972

Comment: None.

22. Total Value Added in Miscellaneous Manufacturing Industries (SIC 39)

Source: Bureau of the Census, 1972 Census of Manufacturers

Contact: None

Code (units): S39 ($ millions)

Transformations: ratio to population

Number of SMSAs included: 241

Time of Observation: 1972

Comment: None.

Additional Data

The data collection effort for theclassification phase of the research uncovered several sources of data which were either redundant or inadequate given the objectives of the city classification. For future reference, these sources are documented below.

I. Environmental Quality

A. Ambient Water Quality

1. STORET Data Bank (EPA)

This source has been used for fourteen parameters of ambient water quality and assimilative attributes. Documentation of these variables is included above. It is worth noting, however, that an abundance of additional data is available from STORET. Approximately 1800 parameters are included in the STORET data bank. Many are redundant measures of the same characteristic and are separate parameters only because different measuring techniques are used. The group of prameters available varies widely between SMSAs. The fourteen parameters chosen for use here are the best data available for the desired measures of ambient water quality in the 262 SMSAs.

2. U.S.G.S. Water Data (See *Catalog of Information on Water Data: Index to Water Quality Section*, Geological Survey: Office of Water Coordination (1970))

Data from various agencies has been collected by USGS and stored by county. This data is included in the STORET data bank.

B. Ambient Air Quality

1. Brian J.L. Berry, *et al*, *Land Use, Urban Form and Environmental Quality* (University of Chicago, Department of Geography, Research Paper No. 150: 1974).

Berry calculated several index values to measure air quality for the seventy-six cities included in that research. The advantages of these indices over the mean values used in the present research are (1) a combined index for all pollutants, and (2) a measure of excessive levels of the pollutants. The first type of index is valuable where data on several pollutants is available as with Berry's study of seventy-six cities. The second type of index is of a limited value where the sampling of air pollutants is not systematically designed to be representative of ambient air quality. Available measures of air quality are heavily biased toward extreme values and are thus not representative. In addition, the data is tabulated by air quality control region rather than SMSA. Using these data to represent air quality in the included SMSAs may introduce significant distortions in the environmental quality factors.

It is felt that use of extreme value indices in addition to means would further distort the analysis. Therefore, mean values of the available measures were used exclusively.

C. Drinking Water

Additional measures of the chemical properties of drinking water are available from Chemical Analysis of Interstate Carrier Water Supply Systems referenced previously (twenty-four in all). The measures chosen for use in the classification stage of this research are those which are most universally available. Several other sources of data were discovered which proved to be less suitable to the present research, in most cases due to the number and distribution of water supplies sampled. Figure 2-4 summarizes the data available.

D. Solid Waste

There is no good, comprehensive data set related to solid waste quantity or expenditures.

The solid waste management area is very fragmented. About fifty percent of residential and commercial collection is done by private firms, who prefer not to release their data. The other fifty percent represents municipalities, for whom inaccurate data is available in the Census of Governments.

In 1968, EPA's predecessors took a survey of solid waste management. They got about a forty percent return rate of all interested government groups. But:

- The data is inaccurate in many cases; it is often nothing more than guesswork without records.
- The raw data only is published for most of New England and Pennsylvania.
- The rest of the raw data is assumed to be available in another form.
- No information on private firms is included.

A survey was taken of private firms as part of a study by the National Solid Waste Management Association for EPA. Raw data appears to be confidential, and the research was directed more toward organizational structure than quantities, etc.

A survey was done under an NSF grant to Columbia University, Public Technology, Inc., and the ICMA (International City Managers Association). The survey related to the institutional organization of solid waste management, was aimed at SMSAs in the 100,000 to 3,000,000 population range, and only looked at a sample of agencies and SMSAs.

Figure A1-4

Summary of Drinking Water Quality Surveys*

Time	Program (Agency)	# of Water Supplies	Characteristics Measured
1974	National Organics Reconnaissance Survey (EPA)	80	six organics raw & finished water
	Current	10	broad range of organics
current	National Survey of Pesticides in Drinking Water (EPA)	330	raw & finished, ground & surface supplies
3 yr. int.	Analysis of Interstate Carrier Water Supplies (EPA)	700	coliforms, chemical analysis (11 inorganics)
1969	Community Water Supply Survey (HEW)	2595 samples	Bacteriological & chemical
current	Community Water Supply Survey (EPA, National Heart & Lung Institute	170	drinking water quality
current	Environmental Radiation Monitoring System (EPA)	77	radioactivity in community water systems
current	Survey of Rural Drinking Water Supplies (EPA)	5200 households	bacteriological, chemical, radiological analyses
current	Nationwide Asbestos Sampling Program (EPA)	60	asbestos fiber content

*See Preliminary Assessment of Suspected Carcinogens in Drinking Water (EPA, June 1975).

Periodically, APWA (American Public Works Association) polls its members about refuse collection. Its main emphasis is on collection technology and operations, and no comprehensive quantity data is collected.

There is a directory of recycling compiled by Penny Hansen at EPA. The individual projects may or may not keep good records of quantities processed.

The situation at disposal sites is still worse. For example, several years ago, it was estimated that 160 to 200 tons per day were collected in Cambridge, Massachusetts. Although this estimate was not based on measurement, these magnitudes are still being used. Another example is that of Saugus, Massachusetts. The Saugus dump charges other towns by load volume rather than weight. Scales are uncommon in the business, and usually inaccurate. In New York, drivers have been known to fill their trucks with rocks, or with water from hydrants to make weight quotas. In Lexington, Massachusetts, many residents use collection services; many others carry their garbage to the dump themselves Saturday morning.

In other words, data problems are big. Managers tend to estimate quantities either by the official compaction of the truck or the latest official wisdom on daily household solid waste generation. EPA is presently requesting bids on a study related to collecting and unifying state solid waste data; however, results will not be available for some time. Further, the study may not develop data on the variables of immediate concern: the impact of solid waste on environmental quality. Estimates of groundwater pollution, rat populations, amounts of recycling, quantities of street litter, the proportion of wastes collected are some of the variables relevant for our purposes. Such information is available only for California; repeating the study for the balance of the U.S. is clearly beyond the scope of this study.

F. Overall Environmental Quality

1. The National Wildlife Federation

The National Wildlife Federation publishes a "National Environmental Quality Index" which is based on collective expert opinion.[*] A rating scale is used to develop six or seven indices for air, water, soil, etc. These are then merged into a single index of overall environmental quality. This index attempts to illustrate trends in environmental quality over time rather than geographical variation.

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[*] National Wildlife Federation, "1971 Environmental Quality Index," *National Wildlife* (Oct.-Nov. 1971).

II. Urban Form and the Physical Environment

A. Assimilative Attributes

1. SEAS Data Bank (EPA)

Total volume of water flow by SMSA is available. Low flow for ninety-three SMSAs and average flow for 101 SMSAs have been measured.

2. National Oceanic and Atmospheric Administration*

Data from this source was used indirectly. Values were actually tabulated from the County and City Data Book.

B. Distribution of Activity

1. U.S.G.S.

The Land Use Data and Analysis Program will provide a systematic and comprehensive collection and analysis of land use and land cover data on a nationwide basis. Detailed land use maps will be produced through computerized mapping of data from NASA photographs, aerial photographs acquired for the U.S.G.S. topographic division's mapping program and ERTS data. Collection of this data will take place over a four to five year period. Cities for which such maps are now available are indicated in Figure 2-5. Urban land will be divided into the following categories:

- residential
- commercial and service
- industrial
- transportation, communication, and utilities
- industrial and commercial complex
- mixed urban or built-up land
- other urban or built-up land.

2. Brian J.L. Berry, et al, Land Use, Urban Form, and Environmental Quality (University of Chicago, Department of Geography, Research Paper No. 155, 1974).

The immense difficulty in collecting land use data for SMSAs in a uniform format prevented Berry from collecting land use data for more than thirteen SMSAs. These SMSAs are indicated in Figure 2-5. Data was manipulated to fit the following land use categories.

- residential
- commercial
- industrial

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*Environmental Data Service, NOAA, Local Climatological Data.

- extractive
- public, quasi-public
- transportation-communication-utilities
- agricultural-recreational-water-vacant

3. Allen D. Manvel, "Land Use in 106 Large Cities," *Three Land Research Studies*; Research Report No. 12 of National Commission on Urban Problems (U.S. Government Printing Office, 1968).

Manvel collected land use data for 106 cities for the period near 1966. Data for the cities indicated on the SMSA list of Figure 2-5 was aggregated to the following categories:

- total
- public streets
- total excluding public streets
- privately owned, total
  - residential
  - commercial
  - industrial
  - railroads
  - undeveloped
- public and semipublic
  - recreational areas
  - schools and colleges
  - airports
  - cemeteries
  - public housing
  - other (by subtraction)

4. *Index to Current Urban Documents*

This publication provides a listing of recent studies which have included land use surveys. Cities for which such studies were listed in recent issues are identified in Figure 2-5.

5. Federal Highway Administration (FHWA)

The Urban Planning Division of the FHWA requires transportation planning and land use reports from cities of over 50,000 people as part of the Transportation Planning Process. The reports are submitted at irregular intervals and are not uniform in either content or format. Reports are located in the Office of Highway Planning and the DOT library.

6. Natural Resources Economic Division, Economic Research Service, USDA

This office was references previously as a source of urbanized area and its population for SMSAs. Also available are acres of crop land, pasture range and forest land.

Figure 2-5

Land Use

		USGS	Berry	Manvel	Current Urban Documents
0040	Abilene, Texas				
0080	Akron, Ohio		✓	✓	
0120	Albany, Georgia				
0160	Albany-Schenectady-Troy, New York				
0200	Albuquerque, New Mexico			✓	
0220	Alexandria, Louisiana				
0240	Allentown-Bethlehem-Easton, Pennsylvania, New Jersey			✓	
0280	Altoona, Pennsylvania				
0320	Amarillo, Texas			✓	✓
0360	Anaheim-Santa Ana-Garden Grove, California			✓	
0400	Anderson, Indiana				
0440	Ann Arbor, Michigan				
0460	Appleton-Oshkosh, Wisconsin				
0480	Asheville, North Carolina				
0520	Atlanta, Georgia			✓	
0560	Atlantic City, New Jersey				
0600	Augusta, Georgia-South Carolina				
0640	Austin, Texas			✓	

completed on page 84.

Figure 2-5 (continued)

		[illegible]	[illegible]	[illegible]	[illegible]
0680	Bakersfield, California				
0720	Baltimore, Maryland				
0760	Baton Rouge, Louisiana			✓	
0780	Battle Creek, Michigan				
0800	Bay City, Michigan				
0840	Beaumont-Port Arthur-Orange, Texas			✓	
0880	Billings, Montana				
0920	Biloxi-Gulfport, Mississippi				
0960	Binghamton, New York-Pennsylvania				
1000	Birmingham, Alabama		✓	✓	
1040	Bloomington-Normal, Illinois				
1080	Boise City, Idaho				
1120	Boston, Massachusetts	✓			
1160	Bridgeport, Connecticut			✓	✓
1170	Bristol, Connecticut				
1200	Brockton, Massachusetts				
1247	Brownsville-Harlingen-San Benito, Texas				
1260	Bryan-College Station, Texas				
1280	Buffalo, New York			✓	

(continued on following page)

Figure 2-5 (continued)

		[illegible]	[illegible]	[illegible]	[illegible]
1320	Canton, Ohio			✓	
1360	Cedar Rapids, Iowa	✓			
1400	Champaign-Urbana-Rantoul, Illinois				
1440	Charleston, South Carolina				
1480	Charleston, West Virginia				
1520	Charlotte, North Carolina				
1560	Chattanooga, Tennessee-Georgia			✓	
1600	Chicago, Illinois		✓	✓	✓
1640	Cincinnati, Ohio-Kentucky-Indiana		✓	✓	
1680	Cleveland, Ohio			✓	
1720	Colorado Springs, Colorado				✓
1740	Columbia, Missouri				
1760	Columbia, South Carolina				
1800	Columbus, Georgia-Alabama			✓	
1840	Columbus, Ohio				
1880	Corpus Christi, Texas			✓	
1920	Dallas, Texas			✓	
1930	Danbury, Connecticut				
1960	Davenport-Rock Island-Moline, Iowa-Illinois				

(continued on following page)

Figure 3-5 (continued)

		USGS	Berry	Manuel	Current Urban Documents
2000	Dayton, Ohio			✓	
2020	Daytona Beach, Florida				
2040	Decatur, Illinois				
2080	Denver-Boulder, Colorado		✓	✓	✓
2120	Des Moines, Iowa			✓	
2160	Detroit, Michigan		✓	✓	
2200	Dubuque, Iowa				
2240	Duluth-Superior, Minnesota-Wisconsin			✓	
2280	Durham, North Carolina				
2320	El Paso, Texas			✓	
2335	Elmira, New York				
2360	Erie, Pennsylvania			✓	
2400	Eugene-Springfield, Oregon				
2440	Evansville, Indiana-Kentucky			✓	
2480	Fall River, Massachusetts-Rhode Island				
2520	Fargo-Moorhead, North Dakota-Minnesota				
2560	Fayetteville, North Carolina				
2600	Fitchburg-Leominster, Massachusetts				

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Figure 2-5 (continued)

		[illegible]	Berry	Marvel	Current Urban Documents
2640	Flint, Michigan			✓	
2650	Florence, Alabama				
2680	Fort Lauderdale-Hollywood, Florida				
2700	Fort Myers, Florida				
2720	Fort Smith, Arkansas-Oklahoma				
2760	Fort Wayne, Indiana			✓	✓
2800	Fort Worth, Texas				
2840	Fresno, California			✓	
2880	Gadsden, Alabama				
2900	Gainesville, Florida				
2920	Galveston-Texas City, Texas				
2960	Gary-Hammond-East Chicago, Indiana			✓	
2970	Gastonia, North Carolina				
3000	Grand Rapids, Michigan			✓	
3040	Great Falls, Montana				
3080	Green Bay, Wisconsin				
3120	Greensboro-Winston-Salem-High Point, North Carolina			✓	
3160	Greenville, South Carolina				

(continued on following page)

Figure 2-5 (continued)

		USGS	Berry	Manvel	Current Urban Documents
3200	Hamilton-Middletown, Ohio				
3240	Harrisburg, Pennsylvania				
3280	Hartford, Connecticut			✓	
3360	Houston, Texas			✓	
3400	Huntington-Ashland, West Virginia-Kentucky-Ohio				
3440	Huntsville, Alabama				
3480	Indianapolis, Indiana		✓	✓	
3520	Jackson, Michigan				
3560	Jackson, Mississippi			✓	
3600	Jacksonville, Florida		✓	✓	
3640	Jersey City, New Jersey			✓	
3680	Johnstown, Pennsylvania				
3720	Kalamazoo-Portage, Michigan				
3760	Kansas City, Missouri-Kansas			✓	
3800	Kenosha, Wisconsin				
3810	Killeen-Temple, Texas				
3840	Knoxville, Tennessee			✓	
3870	La Crosse, Wisconsin				
3880	Lafayette, Louisiana				

(continued on following page)

Figure 2-5 (continued)

		[illegible]	Berry	[illegible]	Current Urban Documents
3920	Lafayette-West Lafayette, Indiana				
3960	Lake Charles, Louisiana				
3980	Lakeland-Winter Haven, Florida				
4000	Lancaster, Pennsylvania				
4040	Lansing-East Lansing, Michigan				
4080	Laredo, Texas				
4120	Las Vegas, Nevada				
4160	Lawrence-Haverhill, Massachusetts-New Hampshire				
4200	Lawton, Oklahoma				
4240	Lewiston-Auburn, Maine				
4280	Lexington, Kentucky				
4320	Lima, Ohio				
4360	Lincoln, Nebraska			✓	
4400	Little Rock-North Little Rock, Arkansas				
4410	Long Branch-Asbury Park, New Jersey				
4440	Lorain-Elyria, Ohio				
4480	Los Angeles-Long Beach, California		✓	✓	
4520	Louisville, Kentucky-Indiana			✓	

(continued on following page)

Figure 2-5 (continued)

		[illegible]	Berry	[illegible]	Current Urban Documents
4560	Lowell, Massachusetts-New Hampshire				
4600	Lubbock, Texas			✓	
4640	Lynchburg, Virginia				
4680	Macon, Georgia				
4720	Madison, Wisconsin				
4760	Manchester, New Harpshire				
4800	Mansfield, Ohio				
4880	McAllen-Pharr-Edinburg, Texas				
4900	Melbourne-Titusville-Cocoa, Florida				
4920	Memphis, Tennessee-Arkansas-Mississippi			✓	
4960	Meriden, Connecticut				
5000	Miami, Florida			✓	✓
5040	Midland, Texas				
5080	Milwaukee, Wisconsin			✓	
5120	Minneapolis-St. Paul, Minnesota-Wisconsin			✓	
5160	Mobile, Alabama			✓	
5170	Modesto, California				
5200	Monroe, Louisiana				

(continued on following page)

Figure 2-5 (continued)

		USGS	Berry	Manuel	Current Urban Documents
5240	Montgomery, Alabama			✓	
5280	Muncie, Indiana				
5320	Muskegon-Muskegon Heights, Michigan				
5350	Nashua, New Hampshire				
5360	Nashville-Davidson, Tennessee			✓	
5400	New Bedford, Massachusetts			✓	
5440	New Britain, Connecticut				
5460	New Brunswick-Perth-Amboy-Sayreville, New Jersey				
5480	New Haven-West Haven, Connecticut			✓	
5520	New London-Norwich, Connecticut-Rhode Island				
5560	New Orleans, Louisiana			✓	
5600	New York, New York-New Jersey			✓	✓
5640	Newark, New Jersey			✓	
5680	Newport News-Hampton, Virginia			✓	
5720	Norfolk-Virginia Beach-Portsmouth, Virginia-North Carolina			✓	
5760	Norwalk, Connecticut				

(continued on following page)

Figure 2-5 (continued)

		USGS	Berry	Maxwell	Current Urban Documents
5800	Odessa, Texas				
5840	Ogden, Utah				
5880	Oklahoma City, Oklahoma		✓		
5920	Omaha, Nebraska-Iowa			✓	
5960	Orlando, Florida				
5990	Owensboro, Kentucky				
6000	Oxnard-Simi Valley-Ventura, California				
6020	Parkersburg-Marietta, West Virginia-Ohio				
6040	Paterson-Clifton-Passaic, New Jersey			✓	
6080	Pensacola, Florida				
6120	Peoria, Illinois			✓	
6140	Petersburg-Colonial Heights-Hopewell, Virginia				
6160	Philadelphia, Pennsylvania-New Jersey			✓	
6200	Phoenix, Arizona	✓		✓	
6240	Pine Bluff, Arkansas				
6280	Pittsburgh, Pennsylvania			✓	
6320	Pittsfield, Massachusetts				

(continued on following page)

Figure 2-5 (continued)

		[illegible]	Berry	Manvel	Current Urban Documents
6400	Portland, Maine				
6440	Portland, Oregon-Washington				✓
6460	Poughkeepsie, New York				
6480	Providence-Warwick-Pawtucket, Rhode Island-Massachusetts		✓	✓	
6520	Provo-Orem, Utah				
6560	Pueblo, Colorado				
6600	Racine, Wisconsin				
6640	Raleigh, North Carolina				
6680	Reading, Pennsylvania				
6720	Reno, Nevada				
6740	Richland-Kennewick, Washington				
6760	Richmond, Virginia			✓	
6780	Riverside-San Bernadino-Ontario, California				
6800	Roanoke, Virginia				
6820	Rochester, Minnesota				✓
6840	Rochester, New York			✓	
6880	Rockford, Illinois				
6920	Sacramento, California			✓	✓
6960	Saginaw, Michigan				

(continued on following page)

Figure 2-5 (continued)

		[illegible]	Berry	McLeod	Current Urban Documents
7000	St. Joseph, Missouri				
7040	St. Louis, Missouri-Illinois			✓	
7080	Salem, Oregon				
7120	Salinas-Seaside-Monterey, California				
7160	Salt Lake City, Utah			✓	✓
7200	San Angelo, Texas				
7240	San Antonio, Texas			✓	
7320	San Diego, California			✓	
7360	San Francisco-Oakland, California	✓		✓	1/3
7400	San Jose, California			✓	
7480	Santa Barbara-Santa Maria-Lompoc, California				
7485	Santa Cruz, California				
7500	Santa Rosa, California				
7510	Sarasota, Florida				
7520	Savannah, Georgia				
7560	Scranton, Pennsylvania				
7600	Seattle-Everett, Washington		✓	✓	✓
7640	Sherman-Denison, Texas				
7680	Shreveport, Louisiana				

(continued on following page)

Figure 2-5 (continued)

		USGS	Berry	Maxwell	Current Urban Documents
7720	Sioux City, Louisiana				
7720	Sioux Falls, South Dakota				
7800	South Bend, Indiana				
7820	Spartenburg, South Carolina				
7840	Spokane, Washington			✓	
7880	Springfield, Illinois				
7920	Springfield, Missouri	✓			
7960	Springfield, Ohio				
8000	Springfield-Chicopee-Holyoke, Massachusetts-Connecticut			✓	
8040	Stamford, Connecticut				
8080	Steubenville-Weirton, Ohio-West Virginia				
8120	Stockton, California				✓
8160	Syracuse, New York			✓	
8200	Tacoma, Washington			✓	
8240	Tallahassee, Florida				
8280	Tampa-St. Petersburg, Florida				
8320	Terre Haute, Indiana				
8360	Texarkana, Arkansas-Texarkana, Texas				
8400	Toledo, Ohio-Michigan			✓	

(continued on following page)

Figure 2-5 (continued)

		USGS	Berry	[illegible]	Current Urban Documents
8440	Topeka, Kansas			✓	
8480	Trenton, New Jersey				
8520	Tucson, Arizona	✓		✓	✓
8560	Tulsa, Oklahoma				
8600	Tuscaloosa, Alabama				
8640	Tyler, Texas				
8680	Utica-Rome, New York				
8720	Vallejo-Fairfield-Napa, California				
8760	Vineland-Millville-Bridgeton, New Jersey				
8800	Waco, Texas				
8840	Washington, D.C.-Maryland-Virginia	✓	✓		
8880	Waterbury, Connecticut			✓	
8920	Waterloo-Cedar Falls, Iowa				
8960	West Palm Beach-Boca Raton, Florida				
9000	Wheeling, West Virginia-Ohio				
9040	Wichita, Kansas			✓	
9080	Wichita Falls, Texas			✓	

Figure 2-5 (continued)

		USGS	Berry	Hammel	Current Urban Documents
9120	Wilkes-Barre-Hazleton, Pennsylvania				
9140	Williamsport, Pennsylvania				
9160	Wilmington, Delaware-New Jersey-Maryland				
9200	Wilmington, North Carolina				
9240	Worcester, Massachusetts			✓	✓
9260	Yakima, Washington				
9280	York, Pennsylvania				
9320	Youngstown-Warren, Ohio				

7. Economic Information Systems, Inc. (EIS)

The EIS Plant File, a data base accessible by computer, "consists of about 750 characters of basic information on each of the 115,000 industrial establishments, gleaned entirely from public records... The basic record for each plant includes the plant's name, address, telephone number, 4-digit primary Standard Industrial Classification Code (SIC) and current estimated employment."*

8. David Harrison, Jr. and John F. Kain, "Cumulative Urban Growth and Urban Density Functions," Journal of Urban Economics (I: 1974): pp. 61-98.

This article provides empirical tests of a model of urban spatial structure by which urban densities at any point in time are represented as resulting from cumulative urban development spanning decades. Alternative estimates of density function parameters are presented for forty-seven SMSAs.

C. Transportation

1. Census of Transportation

a) National Travel Survey--This survey is oriented toward relating population characteristics to travel and trip types rather than geographical variation. The survey is a sample from selected areas rather than a survey of SMSAs. Although regional origins and destinations are reported, reported data does not correspond to any given area.

b) Truck Inventory and Use Survey--Much of this data is available by state. Of the data reported, total truck inventory (thousands of vehicles in 1972) appeared to be the most relevant measure of traffic.

III. Residuals

A. SEAS Data Bank

Measures of only twelve pollutants were utilized in the factor analysis since comprehensive data was not available for all pollutants. The list of pollutants for which the SEAS data bank has data, however, is lengthy:

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*Jay M. Gould, "The Use of the EIS Data Base in Economic Research," paper presented at the 6th International Input-Output Conference, Vienna.

Particulates
Sulfur Oxides
Nitrogen Oxides
Hydrocarbons
Carbon Monoxide
Photochemical Oxides
Other Gases and Mists
Odors
Biological Oxygen Demand
Chemical Oxygen Demand
Total Organic Carbon
Suspended Solids
Dissolved Solids
Nutrients
Acids
Bases
Oils and Greases
Surfactants
Pathogens
Waste Water
Thermal Loading
Combustible Solid Waste
Non-Combustible Solid Waste
Bulky Waste
Hazardous Waste
Mining Waste
Industrial Sludges
Sewage Sludge
Herbicides
Insecticides
Fungicides
Misc. Pesticides
Radionuclides to Air
Radionuclides to Water
Radionuclides to Land

H. 1972 Census of Manufacturers

The potential role of this source in estimating residuals by SMSAs is expounded in the documentation of data used in the factor analysis (see "Residuals").

IV. Households

A. Cost of Living

An investigation of available price indices has indicated that deflation of income figures by a measure of cost of living for each SMSA is not practicable.

The Bureau of Labor Statistics Consumer Price Index is published for only twenty-three cities and is not intended for intercity comparisons. This index monitors price changes for each area over time, measured from an arbitrary point in time when the index for every city was set equal to 100 (1967).

The American Chamber of Commerce Researchers Association compiles a cost of living index which is intended for intercity comparisons. However, the index is not comprehensive in terms of city participation and is not sophisticated enough to yield more than ranking indicators. The 150 participating cities are not the largest metropolitan areas or a cross-section of cities, but those cities which have a relatively low cost of living, and, therefore, benefit by being included. The index cannot indicate percentage differences in costs of living due to the limited number of prices sampled.

In addition to the cost of living index, the Bureau of Labor Statistics published (in 1969) Three Budgets for an Urban Family of Four Persons. The budgets are for low, intermediate and high-income families, consisting of husband, wife, 13-year old boy and 8-year old girl. Budget costs are available for thirty-nine metropolitan areas and four regional groups of non-metropolitan areas.

V. Community Action

A. 1974 Ayer Directory of Periodicals

This directory lists all newspapers and magazines by city. In order to use this data it would be necessary to tabulate all communities within each SMSA and then copy out the circulation for each publication in each community. This would be a formidable task. As an example, the listings for New York City alone spread over forty pages.

APPENDIX IV-A

SUMMARY STATISTICS

This appendix contains summary statistics for each variable, coded as indicated in Table B-1 of Appendix B. The variable name is given at the left, following by its mean and standard deviation in the first two columns. The third column contains the standard error of the mean, and the fourth is the ratio of the standard deviation to the mean, also known as the "coefficient of variation." The next five columns provide information on the minimum and maximum values for the variable,and the range between the minimum and maximum. Z-scores in these columns provide the same information in standardized units (each variable is transformed to mean zero and standard deviation of one). The final column indicates the number of observations available within the set of 362 SMSAs.

VARIABLE NO.	NAME	MEAN	STANDARD DEVIATION	ST. ERR. OF MEAN	COEFF. OF VARIATION	SMALLEST VALUE	SMALLEST Z-SCORE	LARGEST VALUE	LARGEST Z-SCORE	RANGE	TOTAL FREQUENCY
[illegible]											
3	[illegible]	24.993	20.928	1.3769	1.39581	0.001	-0.71643	138.750	5.61352	138.750	231
4	[illegible]	8793.567	15063.023	1038.9531	1.87347	7.090	-0.53370	88947.322	5.32379	88940.322	210
5	B	2.113	1.995	0.1521	0.94425	0.050	-1.22897	11.110	4.51014	11.050	172
6	C	13.531	11.252	0.7859	0.83156	0.000	-1.20256	95.670	7.29983	95.670	205
7	[illegible]	232.943	1382.939	92.8621	5.94075	1.900	-0.16713	23650.897	24.51403	23649.898	225
8	[illegible]	1072.880	3438.135	231.5628	3.20401	0.000	-0.31211	29299.890	8.21935	29299.890	220
9	[illegible]	11.891	6.664	0.4413	0.56041	0.820	-1.66135	35.000	3.46778	34.180	228
10	[illegible]	129.091	97.256	6.1386	0.81725	6.560	-1.25987	936.240	8.40388	929.730	251
11	[illegible]	7.456	0.521	0.0320	0.06980	5.240	-4.33324	8.790	2.58986	3.540	255
12	[illegible]	22.736	28.420	3.1475	1.68981	0.000	-0.59178	329.650	7.73282	329.650	249
13	[illegible]	1.233	8.040	0.6337	7.09556	0.000	-0.14093	100.290	12.32034	100.290	261
14	[illegible]	702.030	76.853	4.8033	0.38040	90.052	-1.45773	533.560	4.11305	443.500	256
15	[illegible]	92.389	124.751	8.1465	1.34580	2.000	-0.72697	973.000	7.08856	971.000	233
16	[illegible]	3.256	5.119	0.3791	1.62216	0.400	-0.55402	48.000	8.75980	47.600	182
17	CL	32.709	45.477	3.1608	1.39032	0.000	-0.71926	357.000	7.13092	357.000	207
18	[illegible]	0.785	1.577	0.0406	0.84333	0.000	-1.16578	4.500	6.60967	4.500	202
19	[illegible]	0.673	3.641	0.2537	5.41033	0.000	-0.18483	37.500	10.11475	37.500	246
20	[illegible]	2.869	24.786	1.7460	8.63096	0.000	-0.11586	300.000	11.98530	300.000	201
21	[illegible]	2.766	4.606	0.3290	1.66479	0.000	-0.60048	33.200	6.60967	33.200	196
22	[illegible]	52.490	63.210	4.5618	1.20423	0.000	-0.83042	397.300	5.45499	397.300	192
23	[illegible]	83.083	69.881	5.0831	0.84109	0.000	-1.18893	384.000	4.30613	384.000	189
24	[illegible]	124.514	101.046	7.3116	0.81143	5.500	-1.17796	519.400	3.90783	513.900	191
25	[illegible]	7.720	0.748	0.0513	0.09685	5.300	-3.23699	9.900	2.91545	4.600	206
26	[illegible]	266.950	208.586	25.2127	0.78134	3.000	-1.26546	1134.500	4.15925	1131.500	189
[illegible]											
39	[illegible]	5.839	7.060	0.4361	1.20912	0.077	-0.81612	57.637	6.62910	57.560	262
40	[illegible]	9.868	8.252	0.5098	9.51042	0.031	-0.11855	133.859	16.11446	133.820	262
41	[illegible]	0.426	0.255	0.0166	0.59869	0.006	-1.67033	3.029	10.25838	3.019	235
42	[illegible]	0.496	0.196	0.0121	0.39672	0.000	-2.53025	1.000	2.57322	1.000	262
43	[illegible]	0.570	0.246	0.0162	0.42563	0.007	-2.32281	1.000	1.72502	0.993	231
44	[illegible]	0.653	0.198	0.0124	0.30343	0.057	-3.00895	1.000	1.75331	0.943	259
[illegible]	[illegible]	0.534	0.430	0.0266	0.80515	0.070	-1.08013	6.692	14.32413	6.622	262
[illegible]	[illegible]	0.514	0.518	0.0320	1.00710	0.058	-0.88006	8.129	14.69491	8.070	262
[illegible]	[illegible]	2.511	0.936	0.0577	0.36586	1.000	-2.69017	4.000	0.52339	3.000	262
[illegible]	[illegible]	8.263	3.565	0.2202	0.43142	3.000	-1.47645	25.700	4.89096	22.000	262
[illegible]	[illegible]	3.281	4.477	0.2766	1.42529	0.000	-0.73161	20.000	3.74359	20.000	262
[illegible]	[illegible]	1.351	0.648	0.0401	0.47980	1.000	-0.54236	4.020	4.18549	3.000	262
45	[illegible]	13.961	16.771	1.0927	1.21666	0.000	-0.80063	100.000	5.23422	100.000	236
46	[illegible]	11.715	26.483	1.7130	2.26059	0.095	-0.44236	267.561	9.66070	267.561	239
47	[illegible]	15.329	21.127	1.4025	1.65091	0.000	-1.53625	183.077	6.37966	183.077	346
52	[illegible]	8.084	7.409	1.4958	0.97562	1.375	-0.86000	42.411	4.48639	41.036	249

VARIABLE NO.	NAME	MEAN	STANDARD DEVIATION	ST. ERR OF MEAN	COEFF. OF VARIATION	SMALLEST VALUE	SMALLEST Z-SCORE	LARGEST VALUE	LARGEST Z-SCORE	RANGE	TOTAL FREQUENCY
[illegible] (continued)											
23	[illegible]	38.120	4.977	0.3075	0.13053	25.970	-2.44100	48.630	2.12095	22.660	262
24	[illegible]	89.220	14.117	0.8722	0.15681	70.250	-1.34435	124.250	2.48081	54.000	262
25	[illegible]	704.220	973.254	59.9425	1.27766	5.000	-0.72071	5980.000	5.43747	5975.000	262
26	[illegible]	36.791	12.937	0.7993	0.35164	3.900	-2.54237	82.250	3.59159	78.520	262
27	[illegible]	61.161	7.505	0.2436	0.12271	47.000	-1.88685	86.000	3.30953	39.000	126
28	[illegible]	9.369	1.716	0.1242	0.18121	5.000	-2.54520	13.700	2.52356	8.700	191
50	[illegible]	18.087	19.140	1.2676	1.05824	1.602	-0.86125	149.510	6.86677	147.915	228
51	[illegible]	6.977	2.000	0.1324	0.28872	2.596	-2.16557	14.420	3.75066	11.820	228
29	[illegible]	32.127	6.251	0.4018	0.19456	7.500	-3.93991	47.500	2.45937	40.000	242
30	[illegible]	16.571	4.461	0.2778	0.26920	4.040	-2.80169	27.480	2.45524	23.440	257
31	[illegible]	8.212	1.547	0.0966	0.18839	2.400	-3.75707	12.530	2.79047	10.130	256
32	[illegible]	260.741	426.179	27.0080	1.63449	4.520	-0.60540	5382.250	12.01716	5378.230	249
33	[illegible]	0.401	0.491	0.0303	1.22514	0.000	-0.81624	1.000	1.22048	1.000	262
[illegible]											
16	[illegible]	160.002	221.391	13.3965	1.41873	0.421	-0.70206	1904.207	8.35744	1903.786	269
17	[illegible]	148.495	247.443	15.0811	1.66634	0.694	-0.59731	2386.387	9.72076	2385.694	269
18	[illegible]	55.329	84.107	5.3301	1.52014	2.276	-0.63078	781.273	8.63119	778.996	269
19	[illegible]	17.403	26.216	1.6614	1.50292	0.107	-0.66128	255.673	9.08551	255.521	269
20	[illegible]	61.966	222.869	11.0901	3.38069	0.294	-0.29435	2235.747	10.20710	2235.448	269
21	[illegible]	16.250	19.292	1.2225	1.06240	0.033	-0.93995	178.383	8.33546	178.350	249
22	[illegible]	52.606	113.198	7.1737	2.15181	0.041	-0.46436	1201.060	10.14549	1201.019	249
23	[illegible]	83.644	405.809	25.7171	4.85161	0.000	-0.20612	5358.246	12.99775	5358.246	249
24	[illegible]	7.231	2.483	0.1573	0.34337	0.033	-2.89584	[illegible]	9.96880	[illegible]	249
25	[illegible]	55.621	135.751	8.6029	2.44064	0.000	-0.40973	1192.516	8.37406	1192.516	249
26	[illegible]	383.409	759.947	48.1597	1.98062	0.000	-0.50489	4457.459	8.53635	4457.459	249
27	[illegible]	295.644	1468.515	89.2610	5.50969	0.000	-0.18850	22088.522	15.40435	22088.522	249
[illegible]											
3	[illegible]	27.406	3.022	0.1943	0.11096	20.700	-2.24838	37.700	3.77057	17.000	262
6	[illegible]	14.538	11.064	0.6845	0.76225	0.900	-1.23096	48.700	3.08773	47.800	252
7	[illegible]	3153.233	308.305	19.0472	0.09777	2557.000	-1.93396	4838.000	5.78096	2281.000	262
8	[illegible]	1.213	0.493	0.0317	0.40642	0.300	-1.85184	3.800	5.24562	3.500	262
9	[illegible]	79.473	12.627	0.7801	0.15888	36.500	[illegible]	[illegible]	[illegible]	[illegible]	262
10	[illegible]	50.896	8.627	[illegible]	0.16193	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	262
12	[illegible]	2.145	0.193	0.0120	0.09251	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	262
36	[illegible]	20.943	3.694	0.2374	0.17893	11.200	-2.59441	31.900	2.98679	20.700	242
41	[illegible]	0.096	0.092	0.0057	0.95120	0.000	-1.04750	0.405	3.37277	0.405	257
48	[illegible]	0.156	0.070	0.0043	0.44702	0.031	-1.78742	0.356	2.88482	[illegible]	262

VARIABLE NO.	NAME	MEAN	STANDARD DEVIATION	ST. ERR. OF MEAN	COEFF. OF VARIATION	SMALLEST VALUE	SMALLEST Z-SCORE	LARGEST VALUE	LARGEST Z-SCORE	RANGE	TOTAL FREQUENCY
[illegible] (continued)											
22	[illegible]	1.444	0.091	0.0050	0.07651	0.630	-5.33148	1.280	2.65296	0.650	262
39	[illegible]	15.500	32.839	2.0366	2.11899	-21.300	-1.12061	204.600	8.29651	225.900	260
19	[illegible]	10.708	17.305	1.1019	1.05479	-9.300	-1.47529	115.200	5.28255	124.500	256
20	[illegible]	67.353	9.007	0.6562	0.24561	44.390	-2.34839	102.520	3.58502	58.130	222
42	[illegible]	73.212	23.324	0.8295	0.28175	3.631	-5.22953	92.131	1.40241	88.490	258
43	[illegible]	60.372	8.779	0.5434	0.14459	2.689	-6.60855	76.823	1.89461	74.134	259
44	[illegible]	9.315	5.254	0.3430	0.56563	0.401	-1.69504	37.462	5.34235	37.061	234
45	[illegible]	2.062	2.245	0.1465	1.08573	0.026	-0.90929	22.596	9.14432	22.570	235
21	[illegible]	0.345	0.035	0.0021	0.10036	0.270	-2.16895	0.510	4.76489	0.240	262
22	[illegible]	9596.465	1488.056	91.9610	0.15515	4761.000	-3.24777	25034.000	4.22948	20273.000	262
23	[illegible]	3048.377	495.418	30.6070	0.16246	1402.000	-3.16379	6319.000	6.59968	4917.000	262
24	[illegible]	52.712	6.054	0.3740	0.11485	25.140	-4.55429	61.130	1.39049	35.990	262
25	[illegible]	28.071	3.667	0.2265	0.13061	16.300	-3.21091	37.100	2.46166	20.800	262
26	[illegible]	37.462	3.949	0.2440	0.10542	22.190	-3.86727	45.290	1.98219	23.100	262
28	[illegible]	7.909	3.435	0.2122	0.43430	3.600	-1.25455	33.000	7.30485	29.400	262
46	[illegible]	32.102	6.654	0.4051	0.20729	3.261	-4.33403	71.377	5.89886	68.116	257
29	[illegible]	0.876	0.092	0.0057	0.10236	0.680	-2.15575	1.270	4.27854	0.590	262
30	[illegible]	85.673	4.965	0.3067	0.05795	55.100	-6.15814	98.100	2.50307	43.000	262
31	[illegible]	70.615	6.568	0.4057	0.09302	34.500	-5.49447	84.900	2.17536	50.400	262
32	[illegible]	16.616	5.505	0.3541	0.33254	6.730	-1.79459	51.940	6.59341	45.210	262
33	[illegible]	7.259	3.334	0.2143	0.45460	2.300	-1.48743	23.100	4.77540	20.800	262
34	[illegible]	36.521	12.395	0.7658	0.33940	7.300	-2.35746	84.000	3.83056	76.700	262
35	[illegible]	76.357	5.263	0.3251	0.06892	63.000	-2.54552	89.900	2.54674	26.900	262
47	[illegible]	9.789	2.080	0.1359	0.21251	4.630	-2.48479	14.690	2.35135	10.060	234
[illegible]											
12	[illegible]	59.350	10.161	0.6522	0.17120	25.700	-3.31169	91.100	3.12471	65.400	262
13	[illegible]	776.259	304.209	24.7490	0.29876	109.000	-1.72379	2407.000	4.46607	2298.000	262
14	[illegible]	15.597	11.842	0.7316	0.75925	0.937	-1.23963	67.434	4.37742	66.497	262
15	[illegible]	5.292	2.849	0.1760	0.53846	0.612	-1.64290	21.554	5.70729	20.942	262
16	[illegible]	7.026	4.683	0.2899	0.66650	0.101	-1.47881	41.229	7.30930	41.128	261
17	[illegible]	18.741	11.279	0.7009	0.60187	0.259	-1.63862	80.139	5.44337	79.880	259
18	[illegible]	10.451	6.958	0.4299	0.66577	0.847	-1.38023	55.129	6.42094	54.282	262
19	[illegible]	264.871	71.199	4.4242	0.26880	131.026	-1.87981	527.706	3.69151	396.680	259
20	[illegible]	254.365	70.806	4.3996	0.27836	132.809	-1.71676	554.423	4.23946	421.614	259
21	[illegible]	2.575	0.401	0.0249	0.15582	1.622	-2.39883	3.797	3.04627	2.175	259
[illegible]											
4	[illegible]	25.221	11.577	0.7152	0.45902	4.640	-1.78112	54.500	2.52904	49.860	262
5	[illegible]	1355.362	787.355	48.9239	0.58092	72.743	-1.62900	3690.637	2.96599	3617.894	259
6	[illegible]	129.512	276.753	17.5738	2.52716	0.000	-0.39570	3490.380	12.12618	3490.380	248
7	[illegible]	153.210	715.464	45.4339	4.16986	0.000	-0.21411	8201.916	11.23785	8201.916	248
8	[illegible]	238.952	623.089	39.5611	2.60751	0.000	-0.38350	4824.027	7.36161	4824.027	248
9	[illegible]	100.995	379.857	24.1259	3.76113	0.000	-0.26588	4449.336	11.44669	4449.336	248
10	[illegible]	20.211	58.222	3.6981	2.88085	0.000	-0.34714	516.380	8.51979	516.380	248
11	[illegible]	3.616	30.019	1.9061	8.12124	0.000	-0.12311	383.802	12.66278	383.802	248
12	[illegible]	67.365	202.709	12.8771	3.01919	0.000	-0.33229	2468.511	11.84073	2468.511	248

VARIABLE NO.	NAME	MEAN	STANDARD DEVIATION	ST.ERR. OF MEAN	COEFF. OF VARIATION	SMALLEST VALUE	SMALLEST Z-SCORE	LARGEST VALUE	LARGEST Z-SCORE	RANGE	TOTAL FREQUENCY
[illegible] (continued)											
13	[illegible]	110.724	284.293	18.0399	2.56679	0.000	-0.38974	2341.024	7.85058	2341.024	248
14	[illegible]	19.734	20.338	1.2915	1.03067	0.000	-0.96930	132.900	5.56528	132.900	248
15	[illegible]	15.461	90.038	5.7174	5.82346	0.000	-0.17172	1348.461	14.80477	1348.461	248
16	[illegible]	14.479	31.955	2.0291	2.20699	0.000	-0.45311	362.896	10.90351	362.896	248
17	[illegible]	55.267	344.454	21.8729	6.24382	0.000	-0.16026	4780.145	13.68228	4780.145	248
18	[illegible]	10.509	18.926	1.2018	1.80092	0.000	-0.55527	99.942	4.72552	99.942	248
19	[illegible]	246.731	1180.047	74.9331	4.78273	0.000	-0.20909	12951.778	10.76578	12951.778	248
20	[illegible]	10.333	23.260	1.4770	2.25109	0.000	-0.44423	235.790	9.69331	235.790	248
21	[illegible]	29.272	156.482	9.9366	5.34726	0.000	-0.18707	2334.334	14.99617	2334.334	248
22	[illegible]	6.702	16.665	1.0582	2.48660	0.000	-0.40216	147.888	8.47192	147.888	248
23	[illegible]	51.625	39.961	2.5375	0.77396	0.000	-1.29224	316.437	6.62791	316.437	248
24	[illegible]	224.269	644.381	40.9182	2.86570	0.000	-0.34805	5899.633	8.80489	5899.633	248
25	[illegible]	51.965	244.166	15.5046	4.69868	0.000	-0.21283	3240.959	13.06076	3240.959	248
26	[illegible]	30.402	198.814	12.6247	5.17718	0.000	-0.19316	2256.975	11.22991	2256.975	248
27	[illegible]	345.474	1077.317	68.4097	3.11837	0.000	-0.32068	8736.395	7.78872	8736.395	248
28	[illegible]	196.822	537.948	34.1024	2.73457	0.000	-0.36588	5438.727	9.73929	5438.727	248
29	[illegible]	17.212	96.522	6.1292	5.60892	0.000	-0.17830	2180.547	22.40532	2180.547	248
30	[illegible]	80.977	212.807	13.5131	2.53947	0.000	-0.39472	1661.309	7.13560	1661.309	248
31	[illegible]	1.417	20.320	1.2903	14.39455	0.000	-0.06967	329.322	15.64467	329.322	248
32	[illegible]	2.932	11.146	0.7078	3.80105	0.000	-0.26309	86.486	7.22968	86.486	248
33	[illegible]	21.212	75.921	4.8210	3.57929	0.000	-0.27939	1049.631	13.46159	1049.631	248
34	[illegible]	30.329	114.632	7.2157	3.74743	0.000	-0.26665	1022.245	8.72933	1022.245	248
35	[illegible]	1.106	7.558	0.4799	6.86165	0.000	-0.14574	80.886	10.55649	80.886	248
36	[illegible]	1.430	13.564	0.8613	9.48672	0.000	-0.10541	170.642	12.47523	170.642	248
37	[illegible]	22.466	47.630	2.8975	2.03102	0.000	-0.49239	441.955	9.18335	441.955	248
38	[illegible]	423.664	292.506	18.5741	0.69042	7.335	-1.22702	2102.255	5.73865	2094.920	248
39	[illegible]	2510.315	431.751	27.4402	0.17199	296.047	-5.12805	4522.348	4.65970	4226.297	248
40	[illegible]	2045.713	2029.963	128.6437	0.70333	512.741	-1.16924	16368.176	6.46241	15855.435	248
41	[illegible]	108.342	115.024	13.1101	1.07576	0.000	-0.92957	1740.419	7.53451	1740.419	248
42	[illegible]	29.933	94.148	5.9605	3.14535	0.000	-0.31794	682.728	6.94432	682.728	247
43	[illegible]	37.862	75.556	4.8271	1.99558	0.000	-0.50111	574.229	7.09882	574.229	245
44	[illegible]	413.955	277.482	17.5639	0.67032	151.125	-0.94720	3524.448	11.20970	3373.323	248

VARIABLE NO.	NAME	MEAN	STANDARD DEVIATION	ST.ERR. OF MEAN	COEFF. OF VARIATION	SMALLEST VALUE	SMALLEST Z-SCORE	LARGEST VALUE	LARGEST Z-SCORE	RANGE	TOTAL FREQUENCY
S26	(continued)										
45	S24	30.746	97.930	6.2567	3.18520	0.000	-0.31395	1352.027	13.49030	1352.027	245
46	S25	16.965	45.936	2.9347	2.70765	0.000	-0.36932	436.083	9.12220	436.083	245
47	S26	51.749	138.643	8.8396	2.73195	0.000	-0.36606	1179.292	8.13329	1179.292	246
48	S27	75.709	56.626	3.6722	0.74790	0.000	-1.33700	366.031	4.77382	366.031	246
49	S28	131.263	308.939	19.6872	2.33827	0.000	-0.42236	2361.790	7.22997	2361.790	246
50	S29	20.285	110.308	7.0370	5.43798	0.000	-0.18389	1360.602	12.15755	1360.602	246
51	S30	36.915	91.669	5.8565	2.48324	0.000	-0.40270	1099.623	11.59274	1099.623	246
52	S31	10.350	47.089	3.0023	4.54961	0.000	-0.21980	473.071	9.82656	473.071	245
53	S32	56.455	103.003	6.6234	1.80021	0.000	-0.54805	1351.296	12.46382	1351.296	245
54	S33	76.495	205.175	14.1350	2.68220	0.000	-0.37283	2059.037	9.79032	2059.037	246
55	S34	130.916	172.749	11.0365	1.31954	0.000	-0.75784	*1429.436	7.45091	1429.436	246
56	S35	165.988	262.616	16.7779	1.58213	0.000	-0.63206	2421.545	8.58891	2421.545	245
57	S36	96.071	175.662	11.2456	1.82770	0.000	-0.53551	1992.369	5.68247	1992.369	242
58	S37	79.712	181.526	11.6219	2.30091	0.000	-0.43061	1362.220	6.98790	1362.220	246
59	S38	18.695	81.413	5.2075	4.38072	0.000	-0.22827	1122.320	13.47951	1122.320	241
60	S39	18.509	45.634	2.9376	2.46448	0.000	-0.40576	542.977	11.51451	542.977	240
27	P	544.045	1082.385	66.5317	1.99135	55.959	-0.45052	11575.881	10.17906	11521.922	241
28	EMPP	198.303	375.335	23.3222	1.99325	26.351	-0.45280	4022.072	10.18622	4006.460	262
29	TNGL	1317.025	1628.940	104.0697	1.23688	55.460	-0.77466	23595.631	13.67618	23540.171	259
30	LG	1575.025	2159.289	133.4013	1.37096	24.010	-0.71830	27295.000	11.91132	27271.000	245
31	LGNU	132.560	175.710	11.3871	1.33030	0.000	-0.76334	1151.000	5.79440	1151.000	238

APPENDIX IV-B

DATA LISTING

This appendix lists the actual data values used for this contract, beginning on page 113 (Table B-3). Both the variables and the SMSAs are indicated by codes; these codes are explained in Tables B-1 (variables) and B-2 (SMSAs). Each column in Table B-3 represents a variable and each row contains data for one SMSA. An index to the data is provided by Table B-1.

Table B-1
Key to Variables

SCR	CODE	DESCRIPTION	PAGE
1	BOD	*Biochemical Oxygen Demand (5-day, 20° C)	113-117
1	FCOL	*Fecal Coliforms, measured by membrane filter method	113-117
1	N	*Total Nitrogen (mg/l)	113-117
1	C	*Total Organic Carbon (mg/l)	113-117
1	TDSS	*Dissolved Solids (mg/l)	113-117
1	TSS	*Suspended Solids (mg/l)	113-117
1	TURB	*Turbidity (Jackson Candle Units)	113-117
1	AALK	*Alkalinity (mg/l as $CaCO_3$)	113-117
1	PHS	*Acidity (standard units)	118-122
1	OAG	*Oil and Grease, soxhlet extraction (mg/l)	118-122
1	MBAS	*Methylene Blue Active Substance (mg/l)	118-122
1	SUS	Suspended Particulates (micro-g/cu.m.)	118-122
1	SO2	Sulfur Dioxide (micro-g/cu.m.)	118-122
1	PDI	PDI Index	118-122
1	CL	†Chloride (mg/l)	118-122
1	FL	†Fluoride (mg/l)	118-122
1	FE	†Iron (mg/l)	123-127
1	MG	†Manganese (mg/l)	123-127
1	NO3	†Nitrate (mg/l)	123-127
1	SO3	†Sulfate (mg/l)	123-127
1	ALK	†Alkalinity (mg/l as $CaCO_3$)	123-127
1	HD	†Hardness (mg/l as $CaCO_3$)	123-127
1	PH	†Acidity (pH standard units)	123-127

*Ambient Water Quality †Drinking Water Quality

(continued on following page)

Table B-1 (continued)

SCE	CODE	DESCRIPTION	PAGE
1	TDS	‡Total Dissolved Solids (mg/l)	123-127
2	SQMS	Square Miles Per Person	128-132
2	SQMC	Square Miles Per Person - Central City	128-132
2	SQMU	Square Miles Per Person - Urban Places	128-132
2	CENP	Portion of Total Population in Central City	128-132
2	CENM	Portion of Manufacturing in Central City (by value added)(percent)	128-132
2	CENS	Portion of Retail Sales in Central City (percent)	128-132
2	CENE	Portion of Employment in Central City (percent)	128-132
2	CENME	Portion of Manufacturing Employment in the Central City (percent)	128-132
2	ARC	Arc of SMSA around the Center (quadrants)	133-137
2	RAD	Number of Major Radial Roadways	133-137
2	CIR	Number of Major Circumferential Roadways	133-137
2	PCN	Number of Population Centers	133-137
2	LU	Portion of Land Which is Urbanized (percent)	133-137
2	REC	Portion of Land Devoted to Outdoor Recreation (percent of total land area)	133-137
2	LA	Land in Farms (percent)	133-137
2	TCOM	Portion of Workers Working Outside SMSA (percent)	133-137
2	LAT	Latitude of SMSA (degrees)	138-142
2	LONG	Longitude of SMSA (degrees)	138-142
2	ALT	Altitude (feet)	138-142
2	PREC	Mean Annual Precipitation (inches)	138-142

(continued on following page)

Table B-1 (continued)

SCS	CODE	DESCRIPTION	PAGE
2	SUN	Mean Annual Possible Sunshine (percent)	138-142
2	WIND	Mean Annual Wind Velocity (miles per hour)	138-142
2	HWPC	Total Miles of Roadway per Capita	138-142
2	HWPR	Portion of Principal Arterials (percent)	138-142
2	INV	Inversions (mean annual frequency)	143-147
2	WTMP	Water Temperature (ambient) (°C)	143-147
2	DO	Dissolved Oxygen in Water (ambient) (mg/l)	143-147
2	HARD	Hardness of Water (ambient) (mg/l as $CaCO_3$)	143-147
2	WTR	Large Water Bodies (number)	143-147
3	RPAR	Particulates (tons per year per capita)	148-152
3	RSO	Sulfur Oxides (tons per year per capita)	148-152
3	RNOX	Nitrogen Oxides (tons per year per capita)	148-152
3	RHC	Hydrocarbons (tons per year per capita)	148-152
3	RCO	Carbon Monoxide (tons per year per capita)	148-152
3	RBOD	Biochemical Oxygen Demand (tons per year per capita)	148-152
3	RSS	Suspended Solids (tons per year per capita)	148-152
3	RDS	Dissolved Solids (tons per year per capita)	148-152
3	RNUT	Nutrients (tons per year per capita)	153-157
3	RWW	Wastewater (million gallons per year per capita)	153-157
3	RNSW	Non-combustible Solid Waste (tons per year per capita)	153-157
3	RIS	Industrial Sludges (tons per year per capita)	153-157

(continued on following page)

Table B-1 (continued)

RCS	CODE	DESCRIPTION	PAGE
4	AGE	Median Age (years)	158-162
4	PF	Portion of Population which is of Foreign Stock (percent)	158-162
4	FR	Fertility Rate (children ever born per thousand women ever married)	158-162
4	MCH	Married Couples Without Own Household (percent)	158-162
4	PU	Portion of Population Which is Urban (percent)	158-162
4	NMOV	Individuals Residing in the Same Dwelling for Five Years (percent)	158-162
4	PPH	Average Household Size (persons per household)	158-162
4	PBL	Portion of Population Which is Black (percent)	158-162
4	MIGP	Movers into the SMSA (percent of individuals over five years of age)	158-162
4	FTM	Female/Male in 20-64 Age Group	163-167
4	PCC	Population Change -- Central City (percent)	163-167
4	PCS	Population Change -- SMSA (percent)	163-167
4	YMC	Change in Median Income (percent)	163-167
4	H1U	Single Family Dwellings (percent)	163-167
4	HOCC	Owner-Occupied Housing (percent)	163-167
4	H5U	Units in Structure -- More than Five Units (percent)	163-167
4	H50U	Units in Structure -- More than Fifty Units (percent	163-167
4	GINI	Income -- Gini Coefficient	168-172
4	YM	Median Family Income (dollars)	168-172
4	YP	Per Capita Income (dollars)	168-172

(continued on following page)

Table B-1 (continued)

RCS	CODE	DESCRIPTION	PAGE
4	EMP	Employment/Population -- Male (percent)	168-172
4	EPF	Employment/Population -- Female (percent)	168-172
4	EPT	Employment/Population -- Total (percent)	168-172
4	HC	Crowded Housing Units (percent)	168-172
4	EPB	Employment/Population -- Black (percent)	168-172
4	DR	Relative Death Rate (adjusted for age) (deaths per thousand population)	173-177
4	AUTO	Households with One or More Automobiles (percent of total households)	173-177
4	TD	Work Trip -- Drivers (percent)	173-177
4	TP	Work Trip -- Passengers (percent)	173-177
4	TWK	Work Trip -- Walkers (percent)	173-177
4	TJA	Mean Temperature in January ($^{\circ}$F)	173-177
4	TJU	Mean Temperature in June ($^{\circ}$F)	173-177
4	VMTP	Vehicle-Miles Travelled (per capita)	173-177
4	DI	Infant Death Rate (deaths per thousand live births)	173-177
5	VOT	Presidential Votes Cast per Voting Age Population (votes per person)	178-182
5	NEW	Sunday Newspaper Circulation per Capita (papers published per thousand population)	178-182
5	GXS	Sewerage Expenditures -- Total (dollars per capita)	178-182
5	GXSM	Sewerage Expenditures -- Other than Capital Outlay (dollars per capita)	178-182
5	GXSO	Expenditures on Sanitation other than Sewerage (dollars per capita)	178-182
5	GXW	Expenditures on Water Supply (dollars per capita)	178-181
5	GXPR	Expenditures on Parks and Recreation (dollars per capita)	178-182

(continued on following page)

Table B-1 (continued)

ACR	CODE	DESCRIPTION	PAGE
5	GX	Local Government -- General Expenditures (dollars per capita)	183-187
5	GREV	Local Government -- General Revenues (dollars per capita)	183-187
5	GEMP	Local Government -- Employment (full time equivalent per capita)	183-187
6	EM	Total Employment in Manufacturing (percent)	188-192
6	VAM	Value Added by All Manufacturing (dollars per capita)	188-192
6	IFLT	Total Value of Production in Meat Animals and other Livestock (dollars per capita)	188-192
6	IOIL	Total Value of Production in Crude Petroleum, Natural Gas (dollars per capita)	188-192
6	IMET	Total Value of Production in Meat Products (dollars per capita)	188-192
6	ICTN	Total Value of Production in Broad and Narrow Fabrics (dollars per capita)	188-192
6	I45	Total Value of Production in Household Furniture (dollars per capita)	188-192
6	IPLP	Total Value of Production in Pulp Mills (dollars per capita)	188-192
6	IPPR	Total Value of Production in Paper and Paperboard Mills	188-192
6	ICHM	Total Value of Production in Industrial Chemicals (dollars per capita)	193-197
6	IPRT	Total Value of Production in Commercial Printing (dollars per capita)	193-197
6	IFRT	Total Value of Production in Fertilizers (dollars per capita)	193-197
6	IMCH	Total Value of Production in Miscellaneous Chemical Products (dollars per capita)	193-197

(continued on following page)

Table B-1 (continued)

SCH	CODE	DESCRIPTION	PAGE
6	IPLA	Total Value of Production in Plastic Materials and Resin (dollars per capita)	193-197
6	IPNT	Total Value of Production in Paints (dollars per capita)	193-197
6	IPVL	Total Value of Production in Petroleum Refining (dollars per capita)	193-197
6	IASP	Total Value of Production in Paving and Asphalt (dollars per capita)	193-197
6	IGLS	Total Value of Production in Glass (dollars per capita)	198-202
6	ICLY	Total Value of Production in Structural Clay Products (dollars per capita)	198-202
6	ICMT	Total Value of Production in Cement, Concrete, Gypsum (dollars per capita)	198-202
6	ISTL	Total Value of Production in Steel (dollars per capita)	198-202
6	IALM	Total Value of Production in Aluminum (dollars per capita)	198-202
6	IAPL	Total Value of Production in Household Applicances (dollars per capita)	198-202
6	ICAR	Total Value of Production in Motor Vehicles (dollars per capita)	198-202
6	IELC	Total Value of Production in Electric Utilities (dollars per capita)	198-202
6	ICOL	Total Value of Production in Coal Mining (dollars per capita)	203-207
6	IVEG	Total Value of Production in Canned and Frozen Foods (dollars per capita)	203-207
6	IFBR	Total Value of Production in Cellulous Fibers (dollars per capita)	203-207

(continued on following page)

Table B-1 (continued)

SUB	CODE	DESCRIPTION	PAGE
6	ITAN	Total Value of Production in Leather and Industrial Leather Products (dollars per capita)	203-207
6	IABS	Total Value of Production in Other Stone and Clay Products (dollars per capita)	203-207
6	ICU	Total Value of Production in Copper (dollars per capita)	203-207
6	IPB	Total Value of Production in Lead (dollars per capita)	203-207
6	IZN	Total Value of Production in Zinc (dollars per capita)	203-207
6	IMTL	Total Value of Production in Other Fabricated Metal Products (dollars per capita)	208-212
6	IWST	Total Value of Production in Wholesale Trade (dollars per capita)	208-212
6	RETT	Total Retail Sales ($000 per capita)	208-212
6	WHOL	Total Wholesale Sales ($000 per capita)	208-212
6	S20	Total Value Added in Food and Kindred Products (SIC 20) ($ millions per capita)	208-212
6	S22	Total Value Added in Textile Mill Products (SIC 22) ($ millions per capita)	208-212
6	S23	Total Value Added in Apparel and Other Textile Mill Products (SIC 23) ($ millions per capita)	208-212
6	SS	Selected Services ($000 per capita)	208-212
6	S24	Total Value Added in Lumber and Wood Products (SIC 24) ($ millions per capita)	213-217
6	S25	Total Value Added in Furniture and Fixtures (S 25) ($ millions per capita)	213-217
6	S26	Total Value Added in Paper and Allied Products (SIC 26) ($ millions per capita)	213-217

(continued on following page)

Table B-1 (continued)

SCR	CODE	DESCRIPTION	PAGE
6	S27	Total Value Added in Printing and Publishing (SIC 27) ($ millions per capita)	213-217
6	S28	Total Value Added in Chemicals and Allied Products (SIC 28) ($ millions per capita)	213-217
6	S29	Total Value Added in Petroleum and Coal Products (SIC 29) ($ millions per capita)	213-217
6	S30	Total Value Added in Rubber and Plastic Products (SIC 30) ($ millions per capita)	213-217
6	S31	Total Value Added in Leather and Leather Products (SIC 31) ($ millions per capita)	213-217
6	S32	Total Value Added in Stone, Clay and Glass Products (SIC 32)($ millions per capita)	218-222
6	S33	Total Value Added in Primary Metal Industries (SIC 33) ($ millions per capita)	218-222
6	S34	Total Value Added in Fabricated Metal Products (SIC 34) ($ millions per capita)	218-222
6	S35	Total Value Added in Machinery, Except Electrical (SIC 35) ($ millions per capita)	218-222
6	S36	Total Value Added in Electrical Equipment and Supplies (SIC 36) ($ millions per capita)	218-222
6	S37	Total Value Added in Transportation Equipment (SIC 37) ($ millions per capita)	218-222
6	S38	Total Value Added in Instruments and Related Products (SIC 38) ($ millions per capita)	218-222
6	S39	Total Value Added in Miscellaneous Manufacturing Industries (SIC 39) ($ millions per capita)	218-222

(continued on following page)

Table B-1 (continued)

	CODE	DESCRIPTION	PAGE
control data	P	Population (in thousands)	223-227
control data	HTOT	Total Housing Units (in thousands)	223-227
control data	TALL	Total Commuters (hundreds)	223-227
control data	LS	Total Land Area -- SMSA (square miles)	223-227
control data	LURB	Total Land Area -- Urbanized Portion (square miles)	223-227

Table B-2
Key to SMSAs

SMSA CODES

TITLE	CODE	
Abilene, Texas	ABIL	0040
Akron, Ohio	AKRN	0080
Albany, Georgia	ALBG	0120
Albany-Schenectady-Troy, New York	ALBN	0160
Albuquerque, New Mexico	ALBQ	0200
Alexandria, Louisiana	ALEX	0220
Allentown-Bethlehem-Easton, Pennsylvania-New Jersey	ALTN	0240
Altoona, Pennsylvania	ALTO	0280
Amarillo, Texas	AMAR	0320
Anaheim-Santa Ana-Garden Grove, California	ANHM	0360
Anderson, Indiana	ANDS	0400
Ann Arbor, Michigan	ANNA	0440
Appleton-Oshkosh, Wisconsin	APPO	0460
Asheville, North Carolina	ASHE	0480
Atlanta, Georgia	ATLA	0520
Atlantic City, New Jersey	ATLC	0560
Augusta, Georgia-South Carolina	AUGS	0600
Austin, Texas	AUST	0640
Bakersfield, California	BAKR	0680
Baltimore, Maryland	BALT	0720
Baton Rouge, Louisiana	BATN	0760
Battle Creek, Michigan	BATL	0780
Bay City, Michigan	BAYC	0800
Beaumont-Port Arthur-Orange, Texas	BEAU	0840
Billings, Montana	BLGS	0880
Biloxi-Gulfport, Mississippi	BILX	0920
Binghamton, New York-Pennsylvania	BING	0960
Birmingham, Alabama	BIRM	1000
Bloomington-Normal, Illinois	BLOO	1040
Boise City, Idaho	BOIS	1080
Boston, Massachusetts	BOST	1120

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
Bridgeport, Connecticut	BRDG	1160
Bristol, Connecticut	BRIS	1170
Brockton, Massachusetts	BROK	1200
Brownsville-Harlingen-San Benito, Texas	BRWN	1240
Bryan-College Station, Texas	BRYN	1260
Buffalo, New York	BUFF	1280
Canton, Ohio	CANT	1320
Cedar Rapids, Iowa	CEDAR	1360
Champaign-Urbana-Rantoul, Illinois	CHMP	1400
Charleston, South Carolina	CHRS	1440
Charleston, West Virginia	CHRW	1480
Charlotte-North Carolina	CHRN	1520
Chattanooga, Tennessee-Georgia	CHAT	1560
Chicago, Illinois	CHIC	1600
Cincinnati, Ohio-Kentucky-Indiana	CINC	1640
Cleveland, Ohio	CLEV	1680
Colorado Springs, Colorado	COLO	1720
Columbia, Missouri	COLM	1740
Columbia, South Carolina	COLS	1760
Columbus, Georgia-Alanama	COLG	1800
Columbus, Ohio	COLC	1840
Corpus Christi, Texas	CORP	1880
Dallas, Texas	DALS	1920
Danbury, Connecticut	DANB	1930
Davenport-Rock Island-Moline, Iowa-Illinois	DAVN	1960
Dayton, Ohio	DAYT	2000
Daytona Beach, Florida	DAYB	2020
Decatur, Illinois	DCAT	2040
Denver-Boulder, Colorado	DENV	2080
Des Moines, Iowa	DESM	2120
Detroit, Michigan	DETR	2160
Dubuque, Iowa	DUBQ	2200
Duluth-Superior, Minnesota-Wisconsin	DULU	2240
Durham, North Carolina	DRHM	2280

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
El Paso, Texas	ELPS	2320
Elmira, New York	ELMR	2335
Erie, Pennsylvania	ERIE	2360
Eugene-Springfield, Oregon	EUGN	2400
Evansville, Indiana-Kentucky	EVAN	2440
Fall River, Massachuestts-Rhode Island	FALR	2480
Fargo-Moorhead, North Dakota-Minnesota	FARG	2520
Fayetteville, North Carolina	FAYT	2560
Fitchburg-Leominster, Massachusetts	FTCH	2600
Flint, Michigan	FLNT	2640
Florence, Alabama	FLOR	2650
Fort Lauderdale-Hollywood, Florida	FTLA	2680
Fort Myers, Florida	FTMY	2700
Fort Smith, Arkansas-Oklahoma	FTSM	2720
Fort Wayne, Indiana	FTWA	2760
Fort Worth, Texas	FTWH	2800
Fresno, California	FRES	2840
Gadsden, Alabama	GADS	2880
Gainesville, Florida	GAIN	2900
Galveston-Texas City, Texas	GALV	2920
Gary-Hammond-East Chicago, Indiana	GARY	2960
Gastonia, North Carolina	GAST	2970
Grand Rapids, Michigan	GRAP	3000
Great Falls, Montana	GTFA	3040
Green Bay, Wisconsin	GRNB	3080
Greensboro-Winston-Salem-High Point, North Carolina	GRNS	3120
Greenville-Spartanburg, South Carolina	GRNV	3160
Hamilton-Middletown, Ohio	HAML	3200
Harrisburg, Pennsylvania	HRIS	3240
Hartford, Connecticut	HART	3280
Houston, Texas	HOUS	3360

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
Huntington-Ashland, West Virginia-Kentucky-Ohio	HUTG	3400
Huntsville, Alabama	HUTN	3449
Indianapolis, Indiana	INDI	3480
Jackson, Michigan	JMIC	3520
Jackson, Mississippi	JMIS	3560
Jacksonville, Florida	JFLA	3600
Jersey City, New Jersey	JERS	3640
Johnstown, Pennsylvania	JOHN	3680
Kalamazoo-Portage, Michigan	KALA	3720
Kansas City, Missouri-Kansas	KANS	3760
Kenosha, Wisconsin	KENO	3800
Killeen-Temple, Texas	KILL	3810
Knoxville, Tennessee	KNOX	3840
La Crosse, Wisconsin	LACR	3870
Lafayette, Louisiana	LFLA	3880
Layfayette-West Layfayette, Indiana	LFIN	3920
Lake Charles, Louisiana	LAKC	3960
Lakeland-Winter Haven, Florida	LAKL	3980
Lancaster, Pennsylvania	LANC	4000
Lansing-East Lansing, Michigan	LANS	4040
Laredo, Texas	LARE	4080
Las Vegas, Nevada	LASV	4120
Lawrence-Haverhill, Massachusetts-New Hampshire	LAWR	4160
Lawton, Oklahoma	LAWT	4200
Lewiston-Auburn, Maine	LEWS	4240
Lexington, Kentucky	LEXG	4280
Lima, Ohio	LIMA	4320
Lincoln, Nebraska	LINC	4360
Little Rock-North Little Rock, Arkansas	LITL	4400
Long Branch-Asbury Park, New Jersey	LONG	4410
Lorain-Elyria, Ohio	LORN	4440
Los Angeles-Long Beach, California	LOSA	4480
Louisville, Kentucky-Indiana	LOUS	4520
Lowell, Massachusetts-New Hampshire	LWEL	4560

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
Lubbock, Texas	LUBB	4600
Lynchburg, Virginia	LYNC	4640
Macon, Georgia	MACN	4680
Madison, Wisconsin	MADN	4720
Manchester, New Hampshire	MANC	4760
Mansfield, Ohio	MANS	4800
McAllen-Pharr-Edinburg, Texas	MCAL	4880
Melbourne-Titusville-Cocoa, Florida	MELB	4900
Memphis, Tennessee-Arkansas-Mississippi	MEMP	4920
Meriden, Connecticut	MERD	4960
Miami, Florida	MIMI	5000
Midland, Texas	MIDL	5040
Milwaukee, Wisconsin	MILW	5080
Minneapolis-St. Paul, Minnesota-Wisconsin	MINN	5120
Mobile, Alabama	MOBL	5160
Modesto, California	MODS	5170
Monroe, Louisiana	MONR	5200
Montgomery, Alabama	MONT	5240
Muncie, Indiana	MUNC	5280
Muskegon-Muskegon Heights, Michigan	MUSK	5320
Nashua, New Hampshire	NASH	5350
Nashville-Davidson, Tennessee	NALL	5360
New Bedford, Massachusetts	NBED	5400
New Britain, Connecticut	NBRT	5440
New Brunswick-Perth-Amboy-Sayreville, New Jersey	NBRN	5460
New Haven-West Haven, Connecticut	NHAV	5480
New London-Norwich, Connecticut-Rhode Island	NLON	5520
New Orleans, Louisiana	NORL	5560
New York, New York-New Jersey	NYOR	5600
Newark, New Jersey	NARK	5640
Newport News-Hampton, Virginia	NPOR	5680
Norfolk-Virginia Beach-Portsmouth, Virginia-North Carolina	NORF	5720
Norwalk, Connecticut	NORW	5760
Odessa, Texas	ODES	5800
Ogden, Utah	OGD	5840

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
Oklahoma City, Oklahoma	OKLA	5880
Omaha, Nebraska-Iowa	OMAH	5920
Orlando, Florida	ORLA	5960
Owensboro, Kentucky	OWEN	5990
Oxnard-Simi Valley-Ventura, California	OXNA	6000
Parkersburg-Marietta, West Virginia-Ohio	PARK	6020
Paterson-Clifton-Passaic, New Jersey	PATR	6040
Pensacola, Florida	PENS	6080
Peoria, Illinois	PEOR	6120
Petersburg-Colonial Heights-Hopewell, Virginia	PETR	6140
Philadelphia, Pennsylvania-New Jersey	PHIL	6160
Phoenix, Arizona	PHOE	6200
Pine Bluff, Arkansas	PINE	6240
Pittsburgh, Pennsylvania	PITB	6280
Pittsfield, Massachusetts	PITF	6320
Portland, Maine	PORM	6400
Portland, Oregon-Washington	PORO	6440
Poughkeepsie, New York	POUG	6460
Providence-Warwick-Pawtucket, Rhode Island-Massachusetts	PROV	6480
Provo-Orem, Utah	PRVO	6520
Pueblo, Colorado	PUEB	6560
Racine, Wisconsin	RACN	6600
Raleigh, North Carolina	RALG	6640
Reading, Pennsylvania	READ	6680
Reno, Nevada	RENO	6720
Richland-Kennewick, Washington	RCHL	6740
Richmond, Virginia	RCHM	6760
Riverside-San Bernadino-Ontario, California	RIVR	6780
Roanoke, Virginia	ROAN	6800
Rochester, Minnesota	RCHM	6820
Rochester, New York	RCHN	6840
Rockford, Illinois	RCKI	6880
Sacramento, California	SACR	6920
Saginaw, Michigan	SAGN	6960

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Table B-2 (continued)

TITLE	CODE	
St. Joseph, Missouri	SJOS	7000
St. Louis, Missouri-Illinois	SLOU	7040
Salem, Oregon	SALM	7080
Salinas-Seaside-Monterey, California	SALI	7120
Salt Lake City, Utah	SALT	7160
San Angelo, Texas	SANG	7200
San Antonio, Texas	SANT	7240
San Diego, California	SDGO	7320
San Francisco-Oakland, California	SFRA	7360
San Jose, California	SJOS	7400
Santa Barbara-Santa Maria-Lompoc, California	SBAR	7480
Santa Cruz, California	SCRS	7485
Santa Rosa, California	SROS	7500
Sarasota, Florida	SARA	7510
Savannah, Georgia	SAVA	7520
Scranton, Pennsylvania	SCRA	7560
Seattle-Everett, Washington	SEAT	7600
Sherman-Denison, Texas	SHER	7640
Shreveport, Louisiana	SHRE	7680
Sioux City, Iowa-Nebraska	SIOU	7720
Sioux Falls, South Dakota	SXFA	7760
South Bend, Indiana	SBEN	7800
Spartanburg, South Carolina	SPAR	7820
Spokane, Washington	SPOK	7840
Springfield, Illinois	SPRI	7880
Springfield, Missouri	SPRM	7920
Springfield, Ohio	SPRO	7960
Springfield-Chicopee-Holyoke, Massachusetts-Connecticut	SPMA	8000
Stamford, Connecticut	STAM	8040
Steubenville-Weirton, Ohio-West Virginia	STEU	8080
Stockton, California	STOC	8120
Syracuse, New York	SYRA	8160

(continued on following page)

Table B-2 (continued)

TITLE	CODE	
Tacoma, Washington	TACO	8200
Tallahassee, Florida	TALL	8240
Tampa-St. Petersburg, Florida	TAMP	8280
Terre Haute, Indiana	TERR	8320
Texarkana, Texas-Texarkana, Arkansas	TEXA	8360
Toledo, Ohio-Michigan	TOLE	8400
Topeka, Kansas	TOPE	8440
Trenton, New Jersey	TREN	8480
Tucson, Arizona	TUSC	8520
Tulsa, Oklahoma	TULS	8560
Tuscaloosa, Alabama	TUSC	8600
Tyler, Texas	TYLR	8640
Utica-Rome, New York	UTIC	8680
Vallejo-Fairfield-Napa, California	VALL	8720
Vineland-Millville-Bridgeton, New Jersey	VINE	8760
Waco, Texas	WACO	8800
Washington, D.C.-Maryland-Virginia	WASH	8840
Waterbury, Connecticut	WATY	8880
Waterloo-Cedar Falls, Iowa	WATO	8920
West Palm Beach-Boca Raton, Florida	WPAL	8960
Wheeling, West Virginia-Ohio	WHEE	9000
Wichita, Kansas	WICH	9040
Wichita Falls, Texas	WIFA	9080
Wilkes Barre-Hazelton, Pennsylvania	WILK	9120
Williamsport, Pennsylvania	WILL	9140
Wilmington, Delaware-New Jersey-Maryland	WILD	9160
Wilmington, North Carolina	WILN	9200
Worcester, Massachusetts	WORC	9240
Yakima, Washington	YAKI	9260
York, Pennsylvania	YORK	9280
Youngstown-Warren, Ohio	YOUN	9320

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Table [illegible] continued

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Table B-1 continued

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Table B-1 continued

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Table B-1. continued

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NUMBER OF CASES READ- - - - - - - - - - - - - - - - 262

Table [illegible] continued

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Table [illegible] continued

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NUMBER OF CASES READ. . . . . . . . . . . . . . . .    262
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[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Table B-1, continued

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NUMBER OF CASES READ. . . . . . . . . . . . . .   262
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NUMBER OF CASES READ. 262

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NUMBER OF CASES READ. 262

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CASE LABEL NO. [illegible]

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Table [illegible] continued

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	241	71.2711	541.3000	5.4435	2.1421	4.7532	33.1191	7.0721
[illegible]	242	40.8591	387.4000	2.3851	3.1633	8.6794	25.1661	3.4847
[illegible]	243	52.5551	696.1000	3.7366	1.4534	7.7655	16.2183	3.4562
[illegible]	244	63.7360	696.1000	41.8313	1.9824	5.6301	11.2591	6.4297
[illegible]	245	56.2333	422.4000	6.4475	4.7374	.4455	21.4271	10.2236
[illegible]	246	60.6433	374.3000	4.3477	5.7541	2.4794	18.6448	4.0818
[illegible]	247	51.2300	146.2000	24.1305	6.6491	7.3194	24.0743	6.3367
[illegible]	248	51.2300	1136.2000	35.1448	12.5604	16.7434	26.3441	21.3867
[illegible]	249	44.2300	124.3000	28.4234	3.5762	21.7391	12.2414	14.3744
[illegible]	250	45.2300	734.3000	24.1537	4.9141	4.1981	18.3449	13.0383
[illegible]	251	61.2561	1294.3000	19.1044	5.2387	15.2644	24.2256	15.4613
[illegible]	252	71.6001	1294.2000	4.1987	7.6452	4.2744	23.8886	11.8861
[illegible]	253	57.4100	643.1000	12.8984	3.6111	3.2192	12.8494	8.4936
[illegible]	254	56.4000	447.2000	4.0194	2.8419	8.7196	21.4914	4.1442
[illegible]	255	47.4833	483.3000	2.8433	2.4433	3.0792	3.7657	4.6292
[illegible]	256	MISSING	MISSING	[illegible]	5.0444	1.1121	21.1366	3.5366
[illegible]	257	46.4933	1196.2000	17.7633	6.8813	7.2113	4.5237	14.2505
[illegible]	258	56.7561	784.2313	26.7533	[illegible]	6.5346	7.4707	4.3276
[illegible]	259	84.2381	411.9437	19.4334	[illegible]	5.7863	11.2244	7.0822
[illegible]	260	MISSING	MISSING	4.1234	4.3526	5.9440	17.0862	6.2445
[illegible]	261	51.4433	461.3000	26.2443	4.9308	3.3471	3.9861	3.1324
[illegible]	262	41.3914	1124.3000	4.4888	6.2445	2.9031	15.2466	4.1885

NUMBER OF CASES READ 262

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]
[illegible]	7	[illegible]	[illegible]	[illegible]
[illegible]	8	[illegible]	[illegible]	[illegible]
[illegible]	9	[illegible]	[illegible]	[illegible]
[illegible]	10	[illegible]	[illegible]	[illegible]
[illegible]	11	[illegible]	[illegible]	[illegible]
[illegible]	12	[illegible]	[illegible]	[illegible]
[illegible]	13	[illegible]	[illegible]	[illegible]
[illegible]	14	[illegible]	[illegible]	[illegible]
[illegible]	15	[illegible]	[illegible]	[illegible]
[illegible]	16	[illegible]	[illegible]	[illegible]
[illegible]	17	[illegible]	[illegible]	[illegible]
[illegible]	18	[illegible]	[illegible]	[illegible]
[illegible]	19	[illegible]	[illegible]	[illegible]
[illegible]	20	[illegible]	[illegible]	[illegible]
[illegible]	21	[illegible]	[illegible]	[illegible]
[illegible]	22	[illegible]	[illegible]	[illegible]
[illegible]	23	[illegible]	[illegible]	[illegible]
[illegible]	24	[illegible]	[illegible]	[illegible]
[illegible]	25	[illegible]	[illegible]	[illegible]
[illegible]	26	[illegible]	[illegible]	[illegible]
[illegible]	27	[illegible]	[illegible]	[illegible]
[illegible]	28	[illegible]	[illegible]	[illegible]
[illegible]	29	[illegible]	[illegible]	[illegible]
[illegible]	30	[illegible]	[illegible]	[illegible]
[illegible]	31	[illegible]	[illegible]	[illegible]
[illegible]	32	[illegible]	[illegible]	[illegible]
[illegible]	33	MISSING	MISSING	MISSING
[illegible]	34	[illegible]	[illegible]	[illegible]
[illegible]	35	[illegible]	[illegible]	[illegible]
[illegible]	36	[illegible]	[illegible]	[illegible]
[illegible]	37	[illegible]	[illegible]	[illegible]
[illegible]	38	[illegible]	[illegible]	[illegible]
[illegible]	39	[illegible]	[illegible]	[illegible]
[illegible]	40	[illegible]	[illegible]	[illegible]
[illegible]	41	[illegible]	[illegible]	[illegible]
[illegible]	42	[illegible]	[illegible]	[illegible]
[illegible]	43	[illegible]	[illegible]	[illegible]
[illegible]	44	[illegible]	[illegible]	[illegible]
[illegible]	45	[illegible]	[illegible]	[illegible]
[illegible]	46	[illegible]	[illegible]	[illegible]
[illegible]	47	[illegible]	[illegible]	[illegible]
[illegible]	48	[illegible]	[illegible]	[illegible]
[illegible]	49	[illegible]	[illegible]	[illegible]
[illegible]	50	[illegible]	[illegible]	[illegible]
[illegible]	51	[illegible]	[illegible]	[illegible]
[illegible]	52	[illegible]	[illegible]	[illegible]
[illegible]	53	[illegible]	[illegible]	[illegible]
[illegible]	54	[illegible]	[illegible]	[illegible]
[illegible]	55	MISSING	MISSING	MISSING
[illegible]	56	[illegible]	[illegible]	[illegible]
[illegible]	57	[illegible]	[illegible]	[illegible]

[illegible]	119	275.3256	262.2883	2.3381
[illegible]	120	163.0707	160.8968	[illegible]
[illegible]	121	131.0256	137.9216	1.5995
[illegible]	122	197.5029	182.9736	2.4277
[illegible]	123	201.7023	221.0276	2.2963
[illegible]	124	307.7093	282.7051	2.6006
[illegible]	125	251.6381	186.9488	2.5252
[illegible]	126	298.0881	267.2786	2.2056
[illegible]	127	214.9375	234.3847	2.2917
[illegible]	128	447.3779	423.5226	3.1391
[illegible]	129	251.3413	244.5908	2.5829
[illegible]	130	230.6557	230.6557	2.0040
[illegible]	131	255.7865	187.4487	2.6247
[illegible]	132	170.0704	166.6049	3.1527
[illegible]	133	256.7934	239.8938	3.1932
[illegible]	134	347.2664	294.9629	2.5762
[illegible]	135	231.4197	173.3743	2.0819
[illegible]	136	226.9294	[illegible]	2.5916
[illegible]	137	260.1742	233.0138	3.2451
[illegible]	138	308.2528	281.7321	2.4631
[illegible]	139	271.7462	241.6367	3.3509
[illegible]	140	261.2481	237.6740	2.2443
[illegible]	141	255.6569	269.5236	2.7013
[illegible]	142	252.8942	251.3391	3.1039
[illegible]	143	385.8540	397.4738	2.8842
[illegible]	144	[illegible]	319.2866	2.3743
[illegible]	145	257.1889	252.5519	1.4465
[illegible]	146	442.1497	490.4369	3.1476
[illegible]	147	266.8858	191.5895	3.0442
[illegible]	148	188.3845	175.8296	2.3817
[illegible]	149	185.7313	196.8872	1.8641
[illegible]	150	381.0937	296.0472	2.7204
[illegible]	151	*MISSING	*MISSING	*MISSING
[illegible]	152	282.5693	220.7907	2.7828
[illegible]	153	276.6376	266.7712	2.2806
[illegible]	154	273.0743	291.7134	2.0218
[illegible]	155	286.2389	263.2547	2.3597
[illegible]	156	291.2469	296.4932	2.4715
[illegible]	157	214.5386	256.4459	1.8811
[illegible]	158	263.6235	227.7443	2.5929
[illegible]	159	513.6176	554.4128	3.7971
[illegible]	160	386.4521	336.1562	2.4633
[illegible]	161	211.8718	192.3633	2.4880
[illegible]	162	267.7866	240.6701	2.5886
[illegible]	163	345.6421	304.6754	2.6139
[illegible]	164	279.4411	336.9441	1.4402
[illegible]	165	246.1705	256.2707	2.6157
[illegible]	166	223.2834	226.0726	2.4276
[illegible]	167	286.5964	254.7475	2.6413
[illegible]	168	196.7276	251.8678	2.4928
[illegible]	169	196.7772	255.3677	3.0987
[illegible]	170	408.5751	356.2666	2.7409
[illegible]	171	211.4731	242.0177	2.4290
[illegible]	172	261.7631	263.1745	2.2670
[illegible]	173	212.6916	213.4250	2.8724
[illegible]	174	219.8967	245.2465	2.2942
[illegible]	175	226.7407	206.8601	2.6431
[illegible]	176	255.7267	219.9201	2.2946
[illegible]	177	273.4821	269.2443	2.7546
[illegible]	178	169.4386	152.8906	2.2427
[illegible]	179	246.7455	244.5746	2.5125

Table B-1 continued

PITT6320	180	226.4754	262.6293	2.6139
PORT6400	181	223.0047	224.5367	2.6681
PORT6440	182	274.1516	274.5452	2.5432
POUG6460	183	300.4383	305.4499	2.5629
PROV6480	184	218.5362	211.7412	2.3446
PROV6520	185	217.4189	190.4735	2.1784
PUEB6560	186	286.7047	285.0193	2.4112
RACI6600	187	308.4742	275.6047	2.4316
RALE6640	188	191.0375	194.3507	2.1854
READ6680	189	225.7223	218.4125	2.1794
RENO6720	190	420.2626	395.5814	3.1937
RICH6740	191	325.6352	332.0622	2.4816
RICH6760	192	261.7024	271.0791	2.5321
RIVE6780	193	427.5727	418.0425	2.4552
ROAN6800	194	212.1961	221.4635	2.7271
ROCH6820	195	316.2751	308.0181	2.7470
ROCH6840	196	406.1992	376.0142	3.0530
ROCK6880	197	212.4104	235.4672	2.1389
SACR6920	198	427.4933	438.6752	3.1421
SAGI6960	199	256.3937	286.6750	2.2854
SJOS7000	200	267.4448	252.4469	2.3294
SLOU7040	201	296.3916	246.4044	2.4579
SALE7080	202	246.4433	238.4040	2.1896
SALI7120	203	357.4981	358.2476	2.7444
SALT7160	204	256.4774	246.7122	2.4183
SANG7200	205	226.2754	184.3851	2.7176
SANT7240	206	196.4084	172.7981	2.6111
SDIE7320	207	341.1445	342.0386	2.5812
SFRA7360	208	450.2946	483.2942	3.2402
SJOS7400	209	441.6819	441.4651	2.6504
SBAR7480	210	353.7324	366.4259	2.4976
SCRZ7485	211	451.5713	411.3661	2.7054
SROS7500	212	444.1516	397.2944	2.6074
SARA7510	213	252.4845	251.6361	2.8176
SAVA7520	214	283.6245	253.5057	3.0192
SCRA7560	215	175.1776	172.4476	1.4584
SEAT7600	216	302.9111	286.4354	2.0506
SHER7640	217	194.6931	195.3446	2.5461
SHRE7680	218	235.8840	211.8446	2.4529
SIOU7720	219	270.2442	251.8416	2.4655
SFAL7760	220	217.4145	223.7185	2.3663
SBEN7800	221	251.5436	258.4911	2.5047
SPOK7840	222	184.3414	191.1077	2.4234
SPRI7880	223	236.1977	234.2477	2.4679
SPRI7920	224	256.4441	215.0904	2.3049
SPRI7960	225	207.2456	184.6305	2.4187
SPRI8000	226	213.2635	218.2635	2.2817
SPRI8003	227	261.3744	273.6452	2.4454
STAM8040	228	366.4374	325.4654	2.5563
STEU8080	229	196.2241	192.4815	2.2528
STOC8120	230	485.4530	512.4449	3.2928
SYRA8160	231	386.7561	367.6313	3.3005
TACO8200	232	261.7832	257.1466	2.7944
TALL8240	233	245.5192	215.4357	3.1132
TAMP8280	234	231.7811	236.2251	2.9870
TERR8320	235	258.0814	262.3715	2.7886
TEXA8360	236	186.7626	173.9186	2.2234
TOLE8400	237	270.2971	256.5403	2.5756
TOPE8440	238	332.2131	304.1354	2.6757
TREN8480	239	311.2170	292.7441	2.5286
TUCS8520	240	286.0754	263.3171	2.0422

Table B-1. continued

[illegible]	241	224.2216	213.4029	2.5292
[illegible]	242	194.0863	180.1276	2.7034
[illegible]	243	207.0117	209.0715	2.6035
[illegible]	244	387.1702	344.9000	3.1778
[illegible]	245	366.1459	360.0267	2.0372
[illegible]	246	252.6239	255.4090	2.4363
[illegible]	247	183.6629	193.0297	2.5674
[illegible]	248	304.2956	338.1538	3.2861
[illegible]	249	213.0409	206.0163	2.3433
[illegible]	250	282.5717	247.5247	2.2205
[illegible]	251	327.1665	364.3079	2.0583
[illegible]	252	186.4433	188.2744	2.6776
[illegible]	253	316.4768	316.2540	2.7415
[illegible]	254	217.4977	235.9451	2.7787
[illegible]	255	159.2167	152.7096	1.7595
[illegible]	256	250.4979	248.0238	2.2544
[illegible]	257	294.1432	273.2771	2.1916
[illegible]	258	242.4944	222.2429	2.3629
[illegible]	259	301.7546	304.1162	2.6346
[illegible]	260	245.9665	241.0441	1.8665
[illegible]	261	170.4387	162.3756	1.8387
[illegible]	262	225.9216	216.2864	2.2942

NUMBER OF CASES READ. 262

CASE LABEL	NO.	4 EM	5 [illegible]	6 IFLT	7 IOIL	8 IMET	9 [illegible]	10 [illegible]	11 [illegible]	12 [illegible]
ABIL 40	1	11.2000	565.2777	65.2832	1074.2867	586.3379	0.000	7.3298	0.000	0.000
AKRN 80	2	39.3000	2062.3001	19.4100	0.000	12.2340	0.000	11.6307	0.000	3.1709
ALBN 120	3	19.4000	742.7804	14.9242	0.000	577.7659	746.3379	10.9327	0.000	0.000
ALBN 160	4	22.2000	1236.3834	35.1290	0.000	541.8985	63.9553	15.6000	0.000	188.3778
ALBQ 200	5	7.6000	130.3477	32.3332	55.0612	108.7178	0.000	10.3219	0.000	0.000
ALEX 220	6	17.4000	271.7643	48.2930	34.5354	266.0012	0.000	52.3723	0.000	36.6739
ALTN 240	7	95.1000	2011.2187	67.7029	0.000	113.2398	208.8721	32.8062	0.000	0.000
ALTO 280	8	29.6000	1281.8654	46.1219	0.000	119.2411	24.3062	6.2747	0.000	495.2281
AMAR 320	9	11.0000	355.2729	4.4063	886.2748	483.7587	37.8227	11.3877	0.000	0.000
ANAH 360	10	28.0000	1232.5825	65.3456	75.9461	0.000	4.3480	26.2787	4.2281	6.9459
ANDS 400	11	40.7000	3275.5273	15.0956	0.000	414.1535	0.000	44.9865	0.000	0.000
ANNA 440	12	23.1000	2426.2827	28.7400	41.9044	0.000	0.000	1.0005	0.000	37.3567
APPL 460	13	36.2000	1885.2192	51.7254	0.000	9.5700	30.6250	15.8467	1043.4722	1348.2591
ASHE 480	14	36.7000	1347.7556	228.0499	0.000	29.0422	728.4797	66.7352	0.000	0.000
ATLA 520	15	19.7000	1152.8218	75.8463	2.7695	126.1865	115.2282	95.3962	0.000	72.0779
ATLC 560	16	16.5000	457.3826	145.2214	0.000	0.000	0.000	5.0966	0.000	0.000
AUGS 600	17	38.6000	1726.4782	94.8879	0.000	170.5989	1848.0871	3.8466	0.000	306.0762
AUST 640	18	8.7000	221.6794	62.2639	43.0575	63.5637	0.000	45.6151	0.000	0.000
BAKF 680	19	7.2000	292.2476	75.0000	1744.7358	72.9358	0.000	4.0862	0.000	0.000
BALT 720	20	25.2000	1304.6104	13.2535	1.0593	177.5756	10.1342	37.4623	0.000	11.3897
BATR 760	21	17.3000	1596.0083	6.5926	11.9111	22.3720	0.000	0.000	0.000	0.000
BATL 780	22	46.6000	2093.4816	27.7026	6.138	34.7337	0.000	0.000	0.000	0.000
BMTC 800	23	39.2000	1616.4839	24.1752	32.0119	211.2119	0.000	12.5279	0.000	0.000
BEAU 840	24	25.9000	1440.6369	6.6045	92.6144	22.6444	0.000	1.0926	0.000	97.6033
BLNG 880	25	8.7000	921.9469	79.2210	308.4325	863.2943	0.000	18.4379	0.000	0.000
BILX 920	26	12.1000	317.2795	31.0591	0.000	31.3560	0.000	0.000	0.000	0.000
BING 960	27	38.0000	1756.9736	66.2703	0.000	43.3893	9.4662	66.7397	0.000	0.000
BIRM1000	28	29.4000	1229.2428	202.7065	0.000	134.0933	39.2967	43.1658	22.9546	36.6755
BLOO1040	29	16.1000	914.9668	40.3279	0.000	121.1814	0.000	0.288	0.000	0.000
BOIS1080	30	10.3000	347.5607	55.7675	0.000	145.2857	0.000	8.7321	34.3958	35.4335
BOST1120	31	22.4000	1505.0898	32.7093	6.0451	133.4400	46.8000	38.5077	0.000	30.9143
BRID1160	32	41.1000	2547.7958	14.9106	6.030	16.9447	28.0001	53.6460	0.000	0.000
BRTS1170	33	50.8000	1606.8291	4155536	4155536	4155536	4155536	4155536	4155536	4155536
BRCK1200	34	38.7000	827.4383	4155536	4155536	4155536	4155536	4155536	4155536	4155536
BRWN1240	35	11.4000	438.8466	7.8305	0.000	28.5887	0.000	0.000	0.000	0.000
BRYN1260	36	6.0000	217.3230	213.1043	0.000	0.000	0.000	34.7931	0.000	0.000
BUFF1280	37	33.6000	1906.7853	29.6565	8.2541	49.0381	11.8328	34.1342	0.000	47.2327
CANT1320	38	42.0000	2488.8556	38.3542	37.2639	1216.1293	0.000	0.000	0.000	1.3059
CDRP1360	39	36.7000	2586.3537	22.4148	0.000	2197.1299	0.000	0.000	0.000	0.000
CHMP1400	40	6.0000	371.1394	51.6469	0.000	29.1696	0.000	28.0460	0.000	0.000
CHRS1440	41	28.6000	486.4511	19.9770	0.000	15.0733	52.3941	1.0418	0.000	396.8962
CHRW1480	42	19.1100	2438.1865	2.5371	479.0572	37.2525	0.000	4.0799	0.000	0.000
CHAR1520	43	20.4000	1012.7746	284.0267	0.000	118.5784	385.7345	42.5623	0.000	42.2855
CHAT1560	44	35.2000	1997.0241	141.3736	0.000	85.0457	436.9511	31.7402	0.000	118.3380
CHIC1600	45	31.7000	1972.1125	8.6732	1.4571	106.3894	6.0745	52.1546	2.5745	38.7868
CINC1640	46	30.7000	1952.6293	11.3566	2.7001	260.3108	5.8926	56.3528	42.5943	40.5766
CLEV1680	47	35.4000	2081.6843	7.7310	4.1358	42.1745	12.8815	14.6543	0.000	3.5123
COLO1720	48	11.1000	285.7931	3.6021	16.3195	0.000	0.000	29.7322	0.000	0.000
COLM1740	49	6.0000	295.8572	14.9567	0.000	52.1581	0.000	0.000	0.000	0.000
COLS1760	50	17.9000	533.6153	174.0875	0.000	144.3570	247.3864	5.7126	0.000	0.000
COLB1800	51	23.6000	833.1328	2.5508	0.000	124.1911	495.4287	5.6866	0.000	35.7980
COLU1840	52	23.4000	1258.6416	11.6505	25.3183	176.0119	0.000	22.2573	0.000	6.9852
CORP1880	53	11.2900	849.4237	22.4363	425.3325	23.2784	0.000	3.3767	0.000	0.000
DALS1920	54	23.4000	1163.7175	34.1784	387.5897	262.7811	11.4421	38.6482	0.000	0.000
DANB1930	55	36.3000	4155536	4155536	4155536	4155536	4155536	4155536	4155536	4155536
DAVN1960	56	32.1000	2123.6534	28.6511	0.000	858.4275	0.000	24.3945	0.000	0.000
DAYT2000	57	37.2000	2844.4738	25.5097	0.000	175.3510	.0703	13.0466	0.000	132.3667

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[illegible]  241   21.4000  1374.9564    6.1662  1051.7666    17.6756   16.7666     0.000   0.000     0.000
[illegible]  242   22.1000   934.2492   41.6275     0.000    784.9765     0.000     0.000   0.000    21.2516
[illegible]  243   24.0000  1157.6176  127.2967  1469.6790    43.4427     0.000    65.0902   0.000     0.000
[illegible]  244   32.3000  1943.1323   23.1015     0.000    107.2420    96.3536   26.1037   0.000    36.0065
[illegible]  245   35.3000   982.3907   97.7661     0.000     97.2835     0.000     0.000   0.000     0.000
[illegible]  246   41.5000  2093.5297  205.2311     0.000     47.6854   270.2567    7.7447   0.000     0.000
[illegible]  247   25.1000  1026.3729  621.3649     0.000    184.3787    23.3814   27.7900   0.000     0.000
[illegible]  248    6.5000   254.5155    1.3247     0.000     21.5966     0.000     3.2450   0.000     0.000
[illegible]  249   43.9000  2411.7881   4155346   4155346     4155346   4155346    4155346  4155346   4155346
[illegible]  250   38.1000  2344.3300  183.5943     0.000   3816.6775     0.000     7.0997   0.000     0.000
[illegible]  251   15.7000   756.9755    3.8107     0.000      0.000      0.000    15.2257   0.000     0.000
[illegible]  252   27.3000  1876.8184   18.8367     0.000    134.4746     0.000     0.000   0.000     0.000
[illegible]  253   27.1000  1875.6689   41.0062  1097.9792   772.4822     0.000    22.5756   0.000     0.000
[illegible]  254    9.4000   273.1115   46.2181  4065.5546   164.8253    13.0825    7.7500   0.000     0.000
[illegible]  255   44.0000  1351.7341    0.4820     0.000     95.3041   352.2087  127.2819   0.000     0.000
[illegible]  256   42.6000  2151.6511   32.1288     0.000    116.9553   795.4978  127.4383   0.000     0.000
[illegible]  257   32.4000  1893.7175   94.7507     0.002      0.000     82.9830    3.2251   0.000    34.0256
[illegible]  258   25.7564   779.2966   30.7941     0.000      0.000    333.2366    0.000   0.000     0.000
[illegible]  259   32.0000  1744.5390  171.5901     0.000    121.9581   411.2953  374.8820   0.000   220.3066
[illegible]  260   15.5066   630.4709  234.5652     0.000    464.4377     0.000    28.3565   0.000    51.1137
[illegible]  261   42.0000  2218.3781  295.4116     0.000     26.1735   204.3197  198.7400   0.000   150.3789
[illegible]  262   42.4000  2391.2457   32.5371     0.000     15.7275     0.000     0.000   0.000     0.000
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Table [illegible] continued

CASE LABEL	NO.	13 [illegible]	14 [illegible]	15 [illegible]	16 [illegible]	17 [illegible]	18 [illegible]	19 [illegible]	20 [illegible]
[illegible]	1	36.4816	32.6160	0.000	0.000	0.000	0.000	341.7385	0.000
[illegible]	2	121.6275	6.7670	2.4883	33.3157	0.000	1.0090	25.3680	4.3025
[illegible]	3	34.1364	0.000	30.4224	0.000	0.000	0.000	0.000	0.000
[illegible]	4	91.1980	72.4604	0.000	1.2190	6.0611	15.4838	0.000	2.3806
[illegible]	5	5.8983	18.4084	0.000	0.000	0.000	7.4421	0.000	23.6608
[illegible]	6	19.0514	3.6633	0.000	0.000	0.250	6.900	0.000	17.4574
[illegible]	7	245.2342	53.4254	6.0344	31.3126	98.5356	2.4984	0.000	16.0834
[illegible]	8	0.000	3.5462	0.000	31.5464	0.000	0.000	0.000	22.7872
[illegible]	9	85.4595	10.0418	0.000	0.000	0.000	0.000	471.2985	32.2734
[illegible]	10	25.8891	6.6565	1.4526	6.2737	19.7270	44.6850	6.4254	4.000
[illegible]	11	33.2973	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	12	0.000	23.2323	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	13	6.2537	14.5163	11.8654	0.000	0.000	0.000	33.2724	6.2114
[illegible]	14	0.000	29.4884	13.9813	164.5998	0.000	0.000	0.000	0.000
[illegible]	15	37.6373	51.7344	3.3046	38.7677	0.000	43.8412	9.7331	18.2362
[illegible]	16	0.000	11.8254	0.000	7.0266	0.000	0.000	0.000	0.000
[illegible]	17	1474.7848	3.2563	7.7724	0.000	0.000	0.000	24.8960	0.000
[illegible]	18	21.3525	31.2854	0.000	0.000	0.006	5.5158	91.3844	0.000
[illegible]	19	127.1107	2.4314	0.001	24.1219	21.3284	0.000	308.4467	0.000
[illegible]	20	81.6161	22.3664	5.7043	13.8989	1.4751	43.2884	27.0412	12.0472
[illegible]	21	1336.7682	7.3641	11.6629	4.3139	54.4108	0.000	4651.2424	0.000
[illegible]	22	11.3252	17.4875	0.000	7.3291	0.000	0.000	0.000	0.000
[illegible]	23	0.000	0.000	0.000	7.000	0.000	0.000	892.0580	0.000
[illegible]	24	624.6676	3.1936	0.000	7.7636	911.1672	0.000	12951.7685	75.6542
[illegible]	25	22.2045	6.1262	0.000	0.000	0.000	0.000	3475.6786	0.000
[illegible]	26	0.000	11.9638	0.000	0.000	45.2390	0.000	0.000	0.000
[illegible]	27	0.000	20.9563	0.001	0.000	0.000	0.700	0.000	35.4270
[illegible]	28	31.8481	14.7844	6.7223	5.4513	0.000	7.3451	27.4844	5.2080
[illegible]	29	0.000	75.5467	0.000	0.271	0.009	3.010	0.000	0.000
[illegible]	30	0.000	2.8513	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	31	144.3864	43.7442	0.000	45.1294	28.5251	16.8440	0.000	18.4482
[illegible]	32	28.1457	44.1941	0.000	28.4528	0.730	0.000	0.000	235.7482
[illegible]	33	*55296	*55296	*55296	*55296	*55296	*55296	*55296	*55296
[illegible]	34	*55296	*55296	*55296	*55296	*55296	*55296	*55296	*55296
[illegible]	35	153.3013	3.4134	15.4594	11.5411	31.2744	0.000	38.7553	0.000
[illegible]	36	0.000	1.7931	0.000	0.000	0.000	0.000	0.000	34.4456
[illegible]	37	176.0571	65.1442	1.4094	19.4153	138.7431	23.4756	84.7162	4.4722
[illegible]	38	15.9567	44.6741	0.000	0.000	0.000	26.0343	221.7354	4.2984
[illegible]	39	0.000	9.8444	0.000	0.000	0.000	0.000	0.000	18.5384
[illegible]	40	0.000	2.0333	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	41	78.7991	5.2467	96.4374	6.0981	0.000	0.000	0.000	46.6294
[illegible]	42	2341.0234	4.1447	0.000	0.000	11.4584	0.000	158.1427	24.5884
[illegible]	43	206.4833	30.7424	0.000	79.5124	0.000	23.8497	0.000	3.5176
[illegible]	44	96.6236	20.5343	45.2815	104.7571	57.7254	44.3497	0.000	4.3884
[illegible]	45	95.4135	41.4292	6.1794	43.6148	4.2941	83.6284	137.7513	21.7356
[illegible]	46	172.1371	65.9204	1.4225	47.1531	58.7203	65.3242	94.4214	56.7280
[illegible]	47	96.1836	29.5444	.7944	104.2538	39.3471	45.4422	44.7511	11.5445
[illegible]	48	0.000	18.9429	24.2825	4.0689	0.000	0.000	0.000	1.3118
[illegible]	49	0.866	11.4425	0.000	0.000	0.000	0.000	0.000	24.4422
[illegible]	50	28.1529	7.4850	6.2740	24.7984	0.000	5.8443	0.000	5.3771
[illegible]	51	0.000	12.7834	22.0514	16.4729	0.000	0.000	0.000	8.6782
[illegible]	52	23.7432	32.0772	19.4436	11.8986	141.1390	47.6426	30.2734	13.8872
[illegible]	53	837.1356	3.4055	16.0343	24.2493	0.000	5.8441	1691.4714	11.4481
[illegible]	54	27.5661	35.5944	5.0141	21.2867	1.1311	41.1363	114.1480	25.4321
[illegible]	55	*55296	*55296	*55296	*55296	*55296	*55296	*55296	*55296
[illegible]	56	16.4281	29.4744	3.6124	0.000	0.000	14.4736	13.1340	5.5251
[illegible]	57	6.7144	132.4444	0.000	16.7467	0.000	44.1580	4.4034	24.5856

[illegible]	58	0.000	0.000	0.000	0.000	15.5174	9.6173	0.000	0.000
[illegible]	59	0.000	18.1505	26.2370	0.000	0.000	0.000	137.4890	13.2789
DENV2500	60	31.0566	29.9026	0.000	1.4734	0.000	5.9632	41.7912	22.8526
DESM2120	61	73.4775	24.9912	14.0150	0.5904	0.000	9.4722	0.000	11.2746
DETR2160	62	76.6844	28.2741	0.000	16.7200	6.2715	35.0334	98.8826	6.0234
[illegible]	63	0.000	0.390	0.000	17.3272	0.000	0.000	0.000	80.8242
DULU2240	64	0.006	11.5119	0.000	22.5740	0.000	4.1079	206.0562	0.000
[illegible]	65	0.700	16.6776	0.000	6.4584	0.000	0.230	0.000	0.000
ELPS2320	66	21.1866	8.5166	0.000	0.000	0.000	36.6833	406.1120	0.000
[illegible]	67	26.2968	4.7273	16.4396	0.000	0.000	0.000	0.230	0.000
ERIE2360	68	17.2575	22.3776	0.000	34.3253	0.000	0.000	0.620	0.000
EUGE2400	69	6.2920	2.2197	0.000	7.000	42.7430	0.000	0.000	0.000
EVAN2440	70	13.1457	37.4766	7.0456	16.8831	0.000	76.0582	0.000	22.8436
FALR2480	71	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	72	0.000	6.3473	0.000	0.000	0.000	0.000	0.000	14.3850
FAYT2560	73	0.000	0.000	0.000	0.000	29.0037	0.300	0.000	0.000
[illegible]	74	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
FLNT2640	75	7.4511	6.3223	0.000	0.000	0.000	61.3434	0.000	0.000
[illegible]	76	44.0791	0.000	55.7945	0.000	0.000	0.000	0.000	0.000
FTLA2680	77	5.0832	10.0440	3.1771	0.000	0.000	2.4207	6.0295	5.9187
[illegible]	78	16.4176	4.5620	0.000	0.000	0.000	0.000	0.000	0.000
FTSM2720	79	42.2625	7.3596	0.000	0.000	0.000	0.000	0.000	0.000
FTWA2760	80	0.000	18.5769	7.0243	0.000	0.000	25.4744	0.000	0.000
FTWO2800	81	21.4559	25.4161	2.5850	31.9649	0.000	13.1744	135.8181	20.5207
FRES2840	82	12.3471	4.7694	47.6930	0.000	14.6282	0.000	125.3413	8.6829
GADS2880	83	0.000	5.0308	34.7340	22.7311	0.000	0.000	0.000	16.2644
GAIN2900	84	54.7996	4.5417	0.000	0.000	0.000	13.4580	0.000	0.000
[illegible]	85	2233.6472	18.2789	7.7144	0.000	1734.0844	0.000	6725.0821	25.0921
GARY2960	86	203.6313	1.7841	6.2307	0.000	34.2671	2.5735	3394.5612	21.8629
[illegible]	87	186.7950	6.5357	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	88	59.5244	32.5281	12.7941	4.2561	0.000	65.1126	34.0461	1.6300
[illegible]	89	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	90	75.7513	3.4333	0.000	0.000	16.6299	0.000	0.000	0.000
[illegible]	91	31.1944	12.4334	35.3373	14.1286	0.000	51.4441	0.000	0.000
[illegible]	92	41.3351	31.7512	0.000	14.0921	0.000	5.4424	0.000	0.000
HAML3200	93	0.1762	4.2861	0.000	0.000	0.000	0.300	0.000	0.000
[illegible]	94	0.000	17.6204	4.1007	0.000	0.000	0.000	0.000	0.7422
HART3280	95	0.7843	44.5197	5.4288	9.0847	4.6139	3.2093	29.6252	3.8923
[illegible]	96	574.3446	23.2042	13.4963	25.6727	240.3150	27.3382	949.6204	5.4021
[illegible]	97	246.0756	7.4061	0.000	5.6944	167.4676	6.4238	1207.6279	0.000
[illegible]	98	31.2707	8.6279	5.7373	0.200	0.000	0.000	0.000	7.7986
[illegible]	99	23.6131	31.7441	5.3244	1.4422	0.000	32.2597	111.1052	15.8196
[illegible]	100	0.000	15.2854	0.000	30.2219	0.000	0.000	0.000	0.000
[illegible]	101	6.2264	17.4384	19.0417	0.000	0.000	6.2957	197.7225	6.6432
[illegible]	102	80.4957	12.1283	6.4479	11.9501	0.000	3.0421	0.000	7.3743
[illegible]	103	224.3900	91.3426	7.7634	31.3534	7.2354	29.4781	345.1194	29.2742
[illegible]	104	10.1948	4.4732	7.6470	0.000	0.000	0.000	0.000	0.000
KALA3720	105	85.3438	32.0020	4.7743	80.4257	87.1240	0.000	132.7040	9.4231
[illegible]	106	96.6572	31.2421	1.6711	26.6286	0.700	44.2044	342.2075	19.4271
[illegible]	107	0.000	5.3035	14.5005	0.000	0.000	0.000	0.000	0.000
[illegible]	108	10.7666	5.0084	16.0216	0.000	0.300	0.000	0.000	52.0677
[illegible]	109	31.7462	8.3410	38.6741	6.2440	206.3445	0.000	0.000	16.0308
[illegible]	110	0.070	23.2340	0.000	20.5944	0.000	0.000	49.0456	0.000
[illegible]	111	0.000	12.5779	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	112	151.5043	10.3311	7.200	0.000	0.000	0.000	0.000	0.000
[illegible]	113	402.0440	0.000	4.0087	24.4129	0.000	9.3525	4292.0523	0.000
[illegible]	114	184.1371	3.5224	1344.4606	16.6294	0.000	0.000	0.000	22.6398
[illegible]	115	0.000	72.7573	6.2922	4.3482	0.000	0.000	105.5643	18.7916
LANS4040	116	0.000	22.9461	17.3625	0.000	33.7254	0.000	193.7774	0.000
[illegible]	117	7.709	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	118	184.6615	1.1784	0.000	0.000	0.000	0.000	0.000	0.000

[illegible]	119	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	120	0.000	0.000	0.000	0.000	0.940	0.000	0.000	0.000
[illegible]	121	0.000	33.3779	0.000	29.2745	0.000	0.000	0.000	0.000
[illegible]	122	0.000	25.3869	0.000	11.8171	0.000	0.000	0.000	0.000
[illegible]	123	306.1309	3.4409	0.000	0.000	0.000	0.000	1123.2155	19.4637
[illegible]	124	0.000	27.3264	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	125	272.3077	33.4317	6.0435	4.5404	13.5704	5.0418	0.000	29.8075
[illegible]	126	44.0404	5.9429	3.2971	0.000	0.000	5.7904	95.6563	0.000
[illegible]	127	19.0565	12.4252	0.000	9.5776	356.4350	0.071	0.000	0.000
[illegible]	128	91.4300	31.3447	2.3005	22.0565	26.2632	25.4521	274.5605	6.4456
[illegible]	129	93.0754	73.3444	17.0016	4.3796	66.4286	74.4231	62.5300	2.4397
[illegible]	130	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	131	0.000	9.5431	0.000	0.000	0.000	0.000	0.000	4.4135
[illegible]	132	0.000	49.1602	0.000	0.029	0.000	13.2012	0.000	0.000
[illegible]	133	25.4371	9.5457	47.1363	11.9228	0.000	0.000	46.0637	0.000
[illegible]	134	0.000	51.7796	22.4339	0.000	0.000	16.7304	0.000	0.000
[illegible]	135	0.000	17.0560	0.000	362.0995	0.000	0.007	0.000	39.7378
[illegible]	136	0.000	7.4417	0.000	0.000	0.000	0.000	0.000	11.0005
[illegible]	137	0.000	14.0258	6.3344	0.000	0.000	0.000	78.4300	0.000
[illegible]	138	35.4773	2.0004	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	139	145.1620	29.3259	14.7307	52.4404	3.4151	14.4327	41.4424	11.1352
[illegible]	140	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	141	4.0009	22.7400	6.7341	2.3204	0.000	12.2944	15.9400	2.4200
[illegible]	142	32.5441	19.3605	0.000	32.7052	0.000	0.070	404.8417	0.000
[illegible]	143	28.0011	44.2100	1.4014	29.4317	14.4443	36.2435	0.4175	4.7446
[illegible]	144	17.4465	41.6187	2.8447	49.6057	8.2320	9.5714	213.4029	19.0445
[illegible]	145	271.6750	2.4004	24.2947	36.2571	0.000	34.4250	0.000	0.000
[illegible]	146	0.000	4.7518	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	147	0.000	22.1062	256.3447	56.4390	0.000	0.000	0.000	14.2025
[illegible]	148	0.000	16.6742	32.4330	12.2190	7.000	0.000	0.000	0.000
[illegible]	149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	36.4000
[illegible]	150	276.7341	3.3441	0.000	9.3377	0.000	0.000	395.2162	0.000
[illegible]	151	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	152	443.4275	69.1362	16.4635	6.6440	0.000	13.7311	0.000	34.4244
[illegible]	153	583.8237	52.7543	0.000	11.7407	26.7782	21.3706	0.000	0.000
[illegible]	154	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	155	452.3709	4.2403	16.9110	66.4310	322.4771	41.5373	403.0537	21.4452
[illegible]	156	563.2504	46.7419	0.000	61.4645	294.1419	7.6206	0.000	5.6241
[illegible]	157	0.000	7.1425	0.000	9.3377	46.3056	0.000	0.000	38.8723
[illegible]	158	49.4236	13.7524	0.000	3.2443	0.000	5.2922	541.3862	14.0465
[illegible]	159	11.5766	62.4160	.4537	12.7096	1.5175	6.4427	45.4443	3.9000
[illegible]	160	736.4363	16.4734	0.040	37.0252	106.2725	79.6252	640.5124	7.0453
[illegible]	161	0.000	9.7443	0.000	0.000	0.000	4.4251	0.000	0.000
[illegible]	162	66.3874	5.1425	53.4447	0.000	0.000	0.000	0.000	0.000
[illegible]	163	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	164	292.2319	0.000	0.000	67.8612	387.5440	0.000	1047.0463	0.000
[illegible]	165	0.000	15.3425	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	166	3.1931	13.5543	4.1417	4.000	0.000	0.000	0.000	0.000
[illegible]	167	46.4357	28.5245	0.000	7.7347	0.000	5.0172	41.4823	4.8794
[illegible]	168	12.7447	4.9532	13.4043	2.0541	0.000	0.000	44.5964	0.000
[illegible]	169	0.000	0.000	0.000	7.201	0.000	0.000	12.7102	0.000
[illegible]	170	25.5312	4.5544	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	171	124.4166	17.4219	0.000	56.4414	2141.3137	0.000	79.1116	0.000
[illegible]	172	221.1521	33.2942	0.000	104.5347	153.4450	0.000	0.000	29.3746
[illegible]	173	110.2952	1.4347	25.4711	16.5124	0.000	45.4525	51.7542	21.1511
[illegible]	174	17.3045	37.2144	0.000	43.4554	0.000	0.000	0.000	0.000
[illegible]	175	1176.4492	0.000	0.000	37.5151	147.4459	0.130	0.000	19.4744
[illegible]	176	44.9150	44.4464	4.1334	42.4514	42.2554	33.4505	44.3247	10.4275
[illegible]	177	16.4464	13.7444	4.7405	0.000	0.000	1.4047	10.4354	3.4418
[illegible]	178	0.000	15.0004	115.4355	0.000	0.000	0.000	0.000	0.000
[illegible]	179	44.5444	25.4435	1.4451	19.3462	53.3242	15.4444	44.3042	.2534

[illegible]	180	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	181	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	182	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	183	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	184	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	185	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	186	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	187	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	188	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	189	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	190	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	191	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	192	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	193	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	194	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	195	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	196	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	197	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	198	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	199	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	201	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	202	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	203	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	204	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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NUMBER OF CASES READ. 262

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CASE LABEL	NO.	29 [illegible]	30 [illegible]	31 [illegible]	32 [illegible]	33 [illegible]	34 [illegible]	35 [illegible]	36 [illegible]
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[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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[illegible]  241  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
[illegible]  242  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
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[illegible]  246  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
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[illegible]  262  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]

NUMBER OF CASES READ.................   [illegible]
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Table B-1. continued

CASE LABEL	NO.	37 INTL	38 INCT	39 RETT	40 WHOL	41 SER	42 SED	43 SED	44 SS
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[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table [illegible] continued

[illegible]	180	0.000	256.1068	2982.3117	3301.4936	0.000	0.000	0.000	381.1694
[illegible]	181	2.227	492.4449	3003.6423	5041.2412	84.0247	0.000	0.000	554.8870
[illegible]	182	33.5445	1024.2442	2587.4230	7591.8594	235.5494	16.7471	32.5333	587.0433
[illegible]	183	46.0794	235.4479	2258.0047	942.0441	33.2991	0.000	40.2209	243.0471
[illegible]	184	84.0479	354.6341	2287.4925	2241.4237	0.000	190.2522	0.000	310.4312
[illegible]	185	26.1777	66.6794	1854.3887	168.4423	0.000	0.000	58.3853	176.5547
[illegible]	186	38.7734	284.9904	2301.3574	1284.4738	128.5543	0.000	0.000	299.6070
[illegible]	187	12.4892	182.5124	1743.5429	1772.2979	282.7754	0.000	0.000	246.5409
[illegible]	188	0.000	640.4013	-65536	-65536	-65536	-65536	-65536	-65536
[illegible]	189	26.6879	247.4172	2250.2280	1085.5929	224.4447	224.3728	135.4732	312.1380
[illegible]	190	-65536	-65536	2047.7860	1207.2346	68.5376	0.000	0.000	1079.6809
[illegible]	191	0.000	175.6475	2361.4298	1353.0928	304.2119	0.000	0.000	-65536
[illegible]	192	1.4254	475.2574	2890.3378	5778.5117	138.0473	0.000	48.5248	508.5824
[illegible]	193	16.7910	196.7294	2331.0444	1361.7330	66.3519	0.000	15.1732	328.7844
[illegible]	194	6.4588	471.3277	2902.3040	7670.5247	265.6498	124.2253	142.2448	496.0744
[illegible]	195	0.000	132.0904	2025.9044	464.5424	0.000	0.000	0.000	453.2365
[illegible]	196	21.3845	450.1745	2582.8564	2447.5880	298.1871	0.000	46.2580	436.3845
[illegible]	197	23.6028	342.3782	2371.6744	1949.2744	244.1855	0.000	0.000	345.7573
[illegible]	198	3.0476	282.9988	2287.8834	2044.2579	238.0482	0.000	3.3725	282.4887
[illegible]	199	3.0480	342.1350	2376.2287	2072.1744	0.000	0.000	0.000	285.0045
[illegible]	200	33.4455	1055.0620	2874.6249	7057.2051	1133.2925	0.000	52.1353	384.1802
[illegible]	201	37.4227	798.7877	2373.5448	4744.7444	261.5133	0.000	45.4259	494.2984
[illegible]	202	0.000	223.4482	2774.4250	138.2444	780.1048	0.000	0.000	224.3774
[illegible]	203	3.6788	207.4829	2219.7644	1297.2547	381.4454	0.000	16.3953	420.1744
[illegible]	204	1.5981	541.1171	-65536	-65536	-65536	-65536	-65536	-65536
[illegible]	205	0.000	295.4489	2512.2674	2080.9428	372.4425	0.000	0.000	320.4424
[illegible]	206	6.4193	128.2221	2236.9828	2543.8829	185.6786	7.7545	40.2771	283.4948
[illegible]	207	26.4874	171.5646	[illegible]	1475.2087	52.8087	0.000	27.4753	508.1516
[illegible]	208	125.8829	471.3425	2446.4479	5721.3687	257.2182	3.8232	38.0000	705.8710
[illegible]	209	34.9283	242.2524	2608.8613	2058.7539	287.0288	0.000	5.0728	548.2985
[illegible]	210	6.7393	208.4454	2473.2946	1185.7294	118.1982	0.000	0.000	705.3881
[illegible]	211	0.000	195.4826	2781.4488	744.4492	582.6594	0.000	0.000	334.0425
[illegible]	212	0.761	184.2388	2037.2434	1342.5288	158.4283	0.000	0.000	295.2588
[illegible]	213	35.9442	132.4429	2462.1184	894.1899	0.000	0.000	0.000	761.4811
[illegible]	214	0.000	448.3576	2936.2674	3471.4087	265.7548	0.000	23.4454	348.3459
[illegible]	215	36.3082	474.8375	-65536	-65536	-65536	0.000	-65536	-65536
[illegible]	216	12.2515	671.6186	2351.8744	4255.5425	129.4472	0.000	29.4484	446.7295
[illegible]	217	0.444	167.7482	2259.6758	748.2464	438.5711	0.000	127.3856	229.4467
[illegible]	218	6.3442	486.0449	2533.4320	3851.3229	180.3787	0.000	26.5440	333.6042
[illegible]	219	5.7465	1308.3125	2773.4084	4235.5505	464.6875	0.000	0.000	374.9667
[illegible]	220	0.000	1126.9484	2958.6729	4443.4581	613.4990	0.000	0.000	440.1352
[illegible]	221	15.7940	467.1976	2277.2487	3052.8759	126.4246	0.000	12.4557	371.3815
[illegible]	222	0.000	412.0440	-65536	-65536	-65536	-65536	-65536	-65536
[illegible]	223	6.5972	574.4058	2675.4888	3980.3748	118.2562	0.000	12.5223	439.4729
[illegible]	224	11.2564	536.7540	2866.1367	2987.2889	49.5883	0.000	0.000	424.3844
[illegible]	225	48.4478	528.2544	3224.2919	4329.5238	395.2459	0.000	30.3743	457.2775
[illegible]	226	20.3255	246.5442	2481.7447	1261.5948	130.4547	0.000	0.000	267.2824
[illegible]	227	23.5244	384.1912	2295.2586	1966.3654	115.4472	74.7763	63.2254	395.3194
[illegible]	228	-65536	-65536	2998.5424	11435.7650	142.4177	0.000	0.000	708.7277
[illegible]	229	42.4544	182.4464	1752.8864	751.2762	0.000	0.000	0.000	223.3874
[illegible]	230	24.6719	483.5178	2525.3714	2249.2544	885.2289	0.000	0.000	346.1832
[illegible]	231	6.6466	401.2574	2786.2216	4969.4878	176.2751	0.4264	13.6833	477.3441
[illegible]	232	4.0445	281.4798	1978.5434	1711.8284	137.7634	0.000	16.7335	248.8358
[illegible]	233	0.000	188.4843	3115.2198	1578.8119	34.4955	0.000	0.000	437.3732
[illegible]	234	7.4754	291.5888	3230.7474	1333.4257	153.2498	0.000	38.1732	580.1816
[illegible]	235	15.4727	251.9954	2525.1254	1976.4229	298.0422	0.000	34.3944	231.2584
[illegible]	236	0.000	284.4274	2567.2454	2426.5447	115.4154	0.000	0.000	284.2244
[illegible]	237	25.2875	420.9444	2596.4449	3279.3484	219.2511	44.2251	0.000	356.5831
[illegible]	238	0.000	333.3876	2816.5247	2435.8874	323.1594	0.000	0.000	388.5193
[illegible]	239	6.3232	381.3943	2492.4344	1943.3794	195.4022	0.000	42.1354	577.3494
[illegible]	240	1.4952	254.8471	2834.4214	2446.2256	42.1445	0.000	0.000	457.2592

Table B-1. continued

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NUMBER OF CASES READ. . . . . [illegible]

Table [illegible] continued

CASE LABEL	NO.	[illegible] S24	46 S25	47 S26	48 S27	49 S28	50 S29	51 S30	52 S31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] - - - - - - - - - - - - - - - - [illegible]

Table D-1: continued

CARD LABEL	NO.	53 S32	54 S33	55 S34	56 S35	57 S36	58 S37	59 S38	60 S39
[illegible]	1	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	0.000	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000
[illegible]	8	0.000	0.000	[illegible]	0.000	[illegible]	0.000	0.000	[illegible]
[illegible]	9	0.000	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000
[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	11	[illegible]	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	12	0.000	[illegible]	[illegible]	0.000	0.000	[illegible]	[illegible]	0.000
[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	17	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	18	[illegible]	0.000	0.000	0.000	[illegible]	0.000	0.000	[illegible]
[illegible]	19	[illegible]	0.000	0.000	[illegible]	0.000	[illegible]	[illegible]	[illegible]
[illegible]	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	21	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	22	0.000	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	23	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	24	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	25	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	26	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	27	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	30	0.000	0.000	[illegible]	0.000	0.000	[illegible]	0.000	0.000
[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	32	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]	[illegible]
[illegible]	33	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	34	0.000	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	35	[illegible]	0.000	[illegible]	0.000	[illegible]	[illegible]	0.000	0.000
[illegible]	36	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	38	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]	[illegible]
[illegible]	39	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	41	[illegible]	0.000	[illegible]	0.000	0.000	[illegible]	0.000	0.000
[illegible]	42	[illegible]	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	48	[illegible]	0.000	0.000	0.000	[illegible]	[illegible]	0.000	0.000
[illegible]	49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	50	0.000	0.000	[illegible]	0.000	[illegible]	0.000	0.000	[illegible]
[illegible]	51	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	53	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	55	0.000	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000
[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table B-3: continued

[illegible]	58	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	62	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	77	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	78	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	83	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	85	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	86	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	87	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	88	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	89	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	93	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	97	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	99	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	101	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	102	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	103	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	104	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	106	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	107	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	108	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	109	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	110	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	111	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	112	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	113	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	114	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	115	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	116	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	117	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	118	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table B-3: continued

[illegible]	119	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	121	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	122	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000	[illegible]
[illegible]	123	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	124	0.000	0.000	[illegible]	0.000	[illegible]	0.000	0.000	0.000
[illegible]	125	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	126	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	127	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	[illegible]
[illegible]	128	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	129	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	130	[illegible]	0.000	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000
[illegible]	131	0.000	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	132	0.000	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	133	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	0.000	[illegible]
[illegible]	134	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	135	0.000	0.000	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000
[illegible]	136	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	137	0.000	0.000	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000
[illegible]	138	0.000	0.000	0.000	0.000	0.000	[illegible]	0.000	0.000
[illegible]	139	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	140	[illegible]	0.000	0.000	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	141	[illegible]	[illegible]	[illegible]	[illegible]	0.000	MISSING	MISSING	MISSING
[illegible]	142	[illegible]	0.000	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	143	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000	0.000
[illegible]	144	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	145	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	[illegible]	[illegible]
[illegible]	146	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	147	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	148	[illegible]	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	149	[illegible]	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	150	0.000	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	151	[illegible]	0.000	0.000	[illegible]	0.000	0.000	0.000	[illegible]
[illegible]	152	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	153	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000
[illegible]	154	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]	0.000
[illegible]	155	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	156	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	157	0.000	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	158	[illegible]	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	159	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	161	[illegible]	0.000	0.000	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	162	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	163	0.000	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	164	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	165	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	166	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	167	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	168	[illegible]	0.000	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	169	[illegible]	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000
[illegible]	171	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	172	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	173	[illegible]	0.000	0.000	0.000	0.000	0.000	[illegible]	[illegible]
[illegible]	174	[illegible]	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	175	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	[illegible]
[illegible]	176	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	177	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	178	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	179	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 6-3: continued

[illegible]	180	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	181	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	182	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	130.4363	152.9042	21.2096
[illegible]	183	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	184	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	87.2940	543.4785
[illegible]	185	[illegible]	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	186	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	187	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	188	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	189	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	262.1616	63.7040	24.4678
[illegible]	190	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	191	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	192	[illegible]	0.000	[illegible]	[illegible]	0.000	18.0718	0.000	22.1657
[illegible]	193	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	123.7540	[illegible]	7.4551
[illegible]	194	111.3340	0.000	[illegible]	151.0174	0.000	0.000	0.000	0.000
[illegible]	195	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	196	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	197	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	29.7725
[illegible]	198	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	199	[illegible]	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	200	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	201	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22.3621	[illegible]
[illegible]	202	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	203	[illegible]	0.000	0.000	34.7401	0.000	0.000	0.000	0.000
[illegible]	204	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	205	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	206	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26.5042	0.000	[illegible]
[illegible]	207	[illegible]	[illegible]	[illegible]	[illegible]	123.5103	341.7730	31.5950	11.4576
[illegible]	208	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	113.2473	20.4112	[illegible]
[illegible]	209	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	211.4460	[illegible]
[illegible]	210	0.000	0.000	[illegible]	[illegible]	[illegible]	[illegible]	44.1823	34.3457
[illegible]	211	[illegible]	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000
[illegible]	212	0.000	0.000	[illegible]	[illegible]	25.3441	0.000	[illegible]	17.0827
[illegible]	213	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	0.000	0.000
[illegible]	214	[illegible]	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	215	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	216	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	217	0.000	0.000	0.000	[illegible]	0.000	61.2747	0.000	0.000
[illegible]	218	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	219	0.000	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	220	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	221	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]
[illegible]	222	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING
[illegible]	223	[illegible]	0.000	[illegible]	[illegible]	0.000	[illegible]	0.000	11.7831
[illegible]	224	[illegible]	0.000	0.000	[illegible]	MISSING	MISSING	MISSING	MISSING
[illegible]	225	0.000	0.000	0.000	[illegible]	0.000	62.1763	0.000	0.000
[illegible]	226	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	227	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	28.7543	225.1441
[illegible]	228	0.000	0.000	[illegible]	[illegible]	[illegible]	0.000	[illegible]	36.0337
[illegible]	229	[illegible]	0.000	[illegible]	0.000	0.000	0.000	[illegible]	0.000
[illegible]	230	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	231	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.3367
[illegible]	232	[illegible]	0.000	0.000	[illegible]	0.000	[illegible]	0.000	0.000
[illegible]	233	0.000	0.000	0.000	0.000	0.000	MISSING	MISSING	MISSING
[illegible]	234	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.5413	[illegible]
[illegible]	235	[illegible]	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000
[illegible]	236	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	237	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	238	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	239	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	240	[illegible]	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000

TABLE D-1: continued

[illegible]	241	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.3057	[illegible]
[illegible]	242	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	243	0.000	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000
[illegible]	244	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]	158.0791
[illegible]	245	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	246	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	247	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	0.000	[illegible]
[illegible]	248	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	249	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	250	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	251	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	0.000	0.000
[illegible]	252	[illegible]	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	253	[illegible]	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	254	0.000	0.000	[illegible]	[illegible]	0.000	0.000	0.000	0.000
[illegible]	255	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	256	0.000	0.000	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
[illegible]	257	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	[illegible]
[illegible]	258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
[illegible]	259	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]
[illegible]	260	0.000	0.000	0.000	0.000	0.000	[illegible]	0.000	0.000
[illegible]	261	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000
[illegible]	262	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	[illegible]	[illegible]

NUMBER OF CASES READ. 262

122

Table [illegible] continued

CASE LABEL	NO.	27 [illegible]	28 [illegible]	29 TALL	30 [illegible]	31 [illegible]
[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	33	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	38	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	54	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	56	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	119	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	120	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	121	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	122	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	123	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	124	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	126	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	127	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	128	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	129	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	130	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	131	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	132	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	133	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	134	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	136	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	137	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	138	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	139	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	140	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	141	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	142	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	143	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	144	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	145	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	146	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	147	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	148	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	149	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	150	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	151	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	152	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	153	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	154	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	155	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	156	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	157	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	158	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	159	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	160	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	161	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	162	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	163	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	164	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	165	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	166	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	167	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	168	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	169	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	171	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	172	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	173	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	174	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	175	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	176	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	177	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	179	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] continued

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Table 8-1. continued

[illegible]	241	478.0440	124.4230	1557.3251	3741.0000	189.7000
[illegible]	242	116.0290	195.6830	223.6125	1238.0000	43.7000
[illegible]	243	97.8780	35.5100	1672.4400	914.0000	24.8000
[illegible]	244	144.4000	33.9930	3440.3237	2656.0000	74.6000
[illegible]	245	244.0810	112.7120	917.8010	1413.0000	[illegible]
[illegible]	246	121.3740	80.4400	546.7292	508.0000	45.3000
[illegible]	247	147.5530	44.3050	1396.2517	1038.0000	69.9000
[illegible]	248	2311.1220	52.5240	23995.6320	2352.0000	294.4100
[illegible]	249	208.0811	937.6020	48.6190	217.0570	55.4000
[illegible]	250	132.7160	41.5130	1298.6174	360.0000	45.4000
[illegible]	251	344.7520	141.2320	917.1570	2023.0000	136.4000
[illegible]	252	192.7120	62.5230	1886.4447	945.0000	27.8000
[illegible]	253	309.3510	124.4950	1135.4671	2848.0000	105.1000
[illegible]	254	126.3350	44.6920	1173.4667	1524.0000	42.2000
[illegible]	255	342.1007	[illegible]	[illegible]	808.0000	82.5000
[illegible]	256	113.2990	38.7630	[illegible]	1216.0000	[illegible]
[illegible]	257	445.6420	156.7230	1217.4462	1165.0000	22.8000
[illegible]	258	137.2140	43.2540	443.0463	1041.0000	39.7100
[illegible]	259	344.1340	108.9950	1212.5357	474.0000	84.4000
[illegible]	260	144.4710	51.2460	[illegible]	4268.0000	[illegible]
[illegible]	261	324.5307	105.0740	1256.7560	1435.0000	37.3130
[illegible]	262	538.4020	167.9670	1153.4500	1838.0000	129.6000

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